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June 29, 1907

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Muhlenberg College Bulletin

ALLENTOWN, PA.

Vol. VI. FEBRUARY, 1907 No. 2

CATALOGUE

1907

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June 20, 1907

UNIVERSITY OF ILLINOIS,
PRESIDENT'S OFFICE,
POSTOFFICES:
CHAMPAIGN
AND URBANA.

THE FACULTY OF MUHLENBERG COLLEGE

CATALOGUE

OF

MUHLENBERG COLLEGE

ALLENTOWN, PA.

FOR THE

FORTIETH COLLEGIATE YEAR

1907

ALLENTOWN, PA.
1907

PRESS OF
REPORT PUBLISHING COMPANY,
LEBANON, PA.

COLLEGE CALENDAR.

1906-1907.

1906.

Sept. 13 ..... First Term began.
Nov. 29-Dec. 3 ..... Thanksgiving Recess.
Dec. 17-21 ..... Semi-annual Examinations.
Dec. 21 ..... First Term ended; Christmas Vacation began.

1907.

Jan. 3 ..... Christmas Vacation ended; Second Term began.
Jan. 22 ..... Semi-annual Board Meeting.
Feb. 22 ..... Washington's Birthday.
Mar. 28-Apr. 8. ..... Easter Recess.
May 20-24 ..... Final Examination of Senior Class.
June 10-14 ..... Examination of lower classes for promotion.
June 16 ..... Baccalaureate Sermon.
June 17-18 ..... Examination for admission to the college classes.
June 17 ..... President's Reception to the Senior Class.
June 19 ..... Junior Oratorical Prize Contest, at 10 a. m.
June 19 ..... Annual Board Meeting, at 1.30 p. m.
June 19 ..... Alumni Banquet.
June 20 ..... Commencement and Conferring of Degrees, at 10 a. m.

SUMMER VACATION.

1907-1908.

Sept. 12 ..... First Term begins. Entrance Examinations.
Nov. 28-Dec. 2 ..... Thanksgiving Recess.
Dec. 16-20 ..... Semi-annual Examinations.
Dec. 20 ..... First Term ends; Christmas Vacation begins.

1908.

Jan. 6 ..... Christmas Vacation ends; Second Term begins.
Apr. 16-27 ..... Easter Recess.
June 14-18 ..... Commencement Week.

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This institution was originally called the *Allentown Seminary,* which name it retained until 1864, when, by an Act of the Legislature of Pennsylvania, it was incorporated with full collegiate powers under the title of the "Allentown Collegiate Institute and Military Academy." In the year 1867 its control passed into the hands of a board of trustees, chiefly members of the Evangelical Lutheran Church, who had the charter amended by the Court of Lehigh County, formed themselves into a joint stock company, named the institution MUHLENBERG COLLEGE, after the honored patriarch of the Lutheran Faith in this country, and established a full collegiate course of studies.

Subsequently the institution, by surrender of the stock, and with a charter amended by the proper Court, was put under the direct control of the "Evangelical Lutheran Ministerium of Pennsylvania and adjacent States." Its trustees are now elected by that body.

LOCATION.

Allentown is beautifully located upon high grounds, a short distance from the confluence of the Jordan Creek and the Lehigh River, fifty-nine miles north of Philadelphia. Few locations combine in a more eminent degree the advantages of accessibility, healthfulness, beautiful surroundings, and adaptation for the pursuit of collegiate study.

The city has frequent and direct communications with New York, Philadelphia, Harrisburg, and the West, and, by the various railroads intersecting here, ready access to all parts of the surrounding country.

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Frederick W. Spieker, D.D.S.....Philadelphia, Pa.
Rev. Isaac H. Stetler.....Coudersport, Pa.
Rev. Edward H. Trafford.....Rajahmundry, India.
Paul S. Ulrich.....Lebanon, Pa.
Leo Wise, Esq.....Allentown, Pa.

1893.

Roderick E. Albright, M.D.....Allentown, Pa.
Samuel B. Anewalt, Jr.....Allentown, Pa.
William B. Brobst.....Bernville, Pa.
Rev. Alfred O. Ebert.....New Tripoli, Pa.
Rev. Charles J. Gable.....Lansford, Pa.

Rev. George A. Kercher.....Norristown, Pa.
Prof. Edwin T. Kunkle.....Brodheadsville, Pa.
Rev. William O. Laub.....Reading, Pa.
Rev. Ambrose W. Leibensperger.....Lebanon, Pa.
Charles L. Lichtenwallner.....New York, N. Y.
Rev. Joshua H. Miller, Ph.D.....Newcastle, Pa.
Edwin J. Mosser, Esq.....Chicago, Ill.
Rev. William F. Mosser.....New Tripoli, Pa.
William Rick, Esq.....Reading, Pa.
Prof. Charles E. Roos.....New Orleans, La.
Rev. Melville B. Schmoyer.....West Hazleton, Pa.
Rev. P. George Sieger.....Lancaster, Pa.
Wilson G. Smoyer.....Allentown, Pa.
Rev. Eugene Stetler.....Mahanoy, Pa.
Harry A. Yetter, LL.B.....Binghamton, N. Y.

1894.

Rev. George D. Druckenmiller.....Nazareth, Pa.
Ira T. Erdman, Esq.....Allentown, Pa.
Max S. Erdman, Esq.....Allentown, Pa.
Malcolm W. Gross, Esq.....Allentown, Pa.
Rev. J. William H. Heintz.....Philadelphia, Pa.
Allen V. Heyl.....Allentown, Pa.
Rev. William U. Kistler.....Pennsburg, Pa.
Rev. Harry C. Kline.....Hamburg, Pa.
Rev. Frank C. Longaker.....Parkersburg, W. Va.
Rev. George C. Loos.....Philadelphia, Pa.
Prof. William H. S. Miller.....Allentown, Pa.
David A. Miller.....Allentown, Pa.
Samuel P. Miller.....Allentown, Pa.
Rev. Warren Nickel.....Applebachsville, Pa.
George S. Opp, Mus. B.....Philadelphia, Pa.
*Martin L. Trexler.....Bernville, Pa.
Rev. Frederick W. Wackernagel.....Rajahmundry, India.
Rev. Edwin S. Woodring.....Geneseo, Ill.
Rev. Charles D. Zweier.....Jersey Shore, Pa.

1895.

Rev. Victor J. Bauer.....Bethlehem, Pa.
Rev. Vitalis J. Becker.....Nappanee, Ind.
Rev. Preston A. Behler.....Perkasie, Pa.
Forley Ebert.....Lehighton, Pa.

Rev. Warren J. Ellis.....Jonestown, Pa.
Rev. Luther D. Gable.....Brooklyn, N. Y.
Ammon A. Killian.....Lansford, Pa.
Rev. Charles E. Kistler.....Reading, Pa.
Rev. Edward H. Kistler.....Reading, Pa.
Rev. Frederick C. Krapf.....Elizabeth, N. J.
Rev. Luther D. Lazarus.....Pen Argyl, Pa.
Rev. Philip A. Lentz.....Ellwood City, Pa.
Newton T. Miller.....Lancaster, Pa.
Rev. Harry P. Miller.....Brooklyn, N. Y.
Prof. John E. Sandt.....East Stroudsburg, Pa.
Morris E. Schadt.....Schadts, Pa.
William J. Schmidt.....Freeland, Pa.
Rev. Elmer E. Snyder.....Easton, Pa.
Wellington J. Snyder, Esq.....Philadelphia, Pa.
Joseph H. Stopp, Esq.....Philadelphia, Pa.

1896.

Rev. William Penn Barr.....Weatherly, Pa.
Preston H. Breinig.....Egypt, Pa.
Rev. Frederick E. Cooper.....South Bethlehem, Pa.
Rev. George W. Genszler.....Selinsgrove, Pa.
Rev. George A. Greiss.....Allentown, Pa.
Prof. Samuel I. Henry.....Boyertown, Pa.
Marcus S. Hottenstein, Esq.....Allentown, Pa.
Rev. J. Frederick Kramlich.....Royersford, Pa.
Oren R. B. Leidy, Esq.....New York, N. Y.
Rev. Milton U. Reinhard.....Allentown, Pa.
Captain Thomas L. Rhoads, M.D.....Omaha, Neb.
Rev. Jeremiah J. Schindel.....Allentown, Pa.
Joseph C. Slough, Esq.....Allentown, Pa.
Rev. John F. Snyder.....Reading, Pa.
George T. Spang, Esq.....Lebanon, Pa.
Rev. William A. Steinbicker.....Brooklyn, N. Y.
Rev. Marvin H. Stettler.....Reading, Pa.
Rev. S. A. Bridges Stopp.....Allentown, Pa.
Rev. Paul Z. Strodach.....Washington, Pa.
Rev. Samuel G. Trexler.....Brooklyn, N. Y.
Rev. L. Domer Ulrich.....Danville, Pa.
Rev. William Marion Weaver.....Lunenberg, N. S.
Rev. Edgar P. Xander.....McAdoo, Pa.
Prof. John M. Yetter, Ph.D.....East Stroudsburg, Pa.

1897.

Prof. Clinton J. Everett.....Plymouth, N. C.
Rev. William H. Fehr.....Pittsburg, Pa.
Rev. William K. Fisher.....Spring City, Pa.
Rev. Franklin K. Fretz, Ph.D.....Philadelphia, Pa.
Alfred S. Hartzell, Esq.....Allentown, Pa.
Rev. Wilmer F. Heldt.....Stone Church, Pa.
Rev. Aaron Henry Klick.....Hegins, Pa.
Rev. Ira W. Klick.....Allentown, Pa.
Willard D. Kline, M.D.....Allentown, Pa.
Rev. William M. Kopenhaver.....Macungie, Pa.
Prof. George E. Kramlich.....Galveston, Texas.
George F. Kuhl.....Allentown, Pa.
Rev. Henry K. Lantz.....Shiremanstown, Pa.
Rev. Gomer B. Matthews.....Cleveland, Ohio.
Rev. Christian C. Miller.....Bath, Pa.
Rev. Francis Miller.....Philadelphia, Pa.
Rev. Ira O. Nothstein.....Summit Hill, Pa.
Jay E. Reed.....Pillow, Pa.
Rev. Archibald C. Schenck.....North Wales, Pa.
Rev. H. Morris Schofer.....Llewellyn, Pa.
Rev. Edgar E. Sieger.....Lykens, Pa.
John F. Stine.....Allentown, Pa.
John H. Sykes.....Allentown, Pa.
Jacob A. Trexler, M.D.....Shamrock Station, Pa.

1898.

Rev. Charles G. Beck.....Montreal, Canada.
*Rev. William A. Bilheimer.....Youngwood, Pa.
John T. Eckert, Jr., M.D.....Allentown, Pa.
George F. Erdman.....Allentown, Pa.
John S. Fegley, Phar.D.....Allentown, Pa.
Rev. Levi F. Gruber.....Utica, N. Y.
Rev. Henry F. Hehl.....Philadelphia, Pa.
Rev. William S. Heist.....Scranton, Pa.
Rev. David C. Kaufman.....Beavertown, Pa.
Rev. Emile J. Keuling.....College Point, N. Y.
Rev. Edwin L. Kistler.....Sunbury, Pa.
Marvin L. Kleppinger.....Allentown, Pa.
Rev. Prof. George S. Kressley.....Kutztown, Pa.
Edwin T. Laubach.....Catasauqua, Pa.
Rev. George I. Lenker.....Allegheny, Pa.

Rev. Bernard Repass.....Allentown, Pa.
Rev. Will E. Steckel.....Marietta, Pa.
Rev. John K. Sullenberger.....Allentown, Pa.
John P. Walter.....Cresson, Pa.
Rev. Wesley E. Wenner.....Kimberton, Pa.

1899.

Rev. Willis Beck.....Zumbrota, Wis.
Rev. John Bender.....Scranton, Pa.
Rev. James Berg.....Mt. Vernon, N. Y.
Rev. Frank N. D. Buchman.....Philadelphia, Pa.
George John Case.....Hokendauqua, Pa.
Rev. D. Elmer Fetherolf.....Freeburg, Pa.
Fred. A. Fetherolf, M.S., M.D.....Allentown, Pa.
Luther Warren Fritch.....Macungie, Pa.
F. Nathan Fritch.....Bethlehem, Pa.
John G. Hartley.....Philadelphia, Pa.
Hon. R. Keelor Hartzell, M.S., M.D.... Allentown, Pa.
Wm. A. Hausman, Jr., M.S., M.D.....Allentown, Pa.
Rev. Edgar J. Heilman.....Wyndmoor, Pa.
Leidy B. Heist.....Limeport, Pa.
Rev. Jonas Oscar Henry.....Topton, Pa.
Rev. Jonathan A. Klick.....Easton, Pa.
Rev. John W. Koch.....Grantville, Pa.
Rev. John Kopp.....Port Chester, N. Y.
Prof. Ambrose A. Kunkle.....Allentown, Pa.
Rev. Howard A. Kunkle.....Bethlehem, Pa.
Harry R. McCullough.....Allentown, Pa.
Edward Raker, Esq.....Shamokin, Pa.
Charles H. Reagle.....Roselle, N. J.
Rev. Willoughby F. Rex.....Marietta, Pa.
Rev. William J. Seiberling.....Mulberry, Ind.
Ira C. Steigerwalt.....Sittler, Pa.
Peter S. Trumbower.....Nazareth, Pa.

1900.

Arthur G. Beck.....Allentown, Pa.
Frederick R. Bousch, M.D.....Avoca, Pa.
Rev. Elmer D. S. Boyer.....Lafayette, Ind.
Rev. George R. Deisher.....Jonestown, Pa.
Frederick L. Erb.....Slatington, Pa.
Rev. Charles K. Fegley.....Harrisburg, Pa.

Rev. Arthur G. Flexer.....Lancaster, Pa.
Prof. Robert R. Fritsch.....Allentown, Pa.
Prof. Robert C. Horn.....Allentown, Pa.
Rev. William M. Horn.....New York, N. Y.
Victor J. Koch, M.S., M.D.....Nazareth, Pa.
Rev. Paul G. Krutzky.....Worcester, Mass.
Rev. Franklin S. Kuntz.....Philadelphia, Pa.
Raymond W. Lentz.....Allentown, Pa.
Edgar C. Statler, M.D.....Allentown, Pa.
Rev. Harvey L. Straub.....Lehighton, Pa.
Rev. Lewis S. Trump.....Ricketts, Pa.
Abraham B. Yerger.....Basking Ridge, N. J.

1901.

Rev. Allen L. Benner.....Richmond Hill, N. Y.
Clarence Bickel.....Philadelphia, Pa.
George H. Drumheller.....Earlville, Pa.
James M. Fetherolf.....Washington, D. C.
William P. Fetherolf..... Daggett, Cal.
Daniel W. Hamm.....Allentown, Pa.
Ralph E. Kline.....Allentown, Pa.
Raymond H. Kressler.....Allentown, Pa.
Harry S. Landis.....Allentown, Pa.
Irwin E. Nagle.....Allentown, Pa.
George L. Raether, B.S.....Nazareth, Pa.
Fred. P. Reagle.....Westfield, N. J.
Rev. George K. Rubrecht.....Milwaukee, Wis.
Percy B. Ruhe.....Allentown, Pa.
Rev. Irwin O. Schell.....Quakertown, Pa.
Herbert J. Schmoyer, M.S., M.D.....Bethlehem, Pa.
Rev. John Schofer.....Berwick, Pa.
Luther Serfass.....Easton, Pa.
Howard E. Shimer.....Nazareth, Pa.
Rev. Hiram F. Sieger.....Philadelphia, Pa.
Rev. Edward J. Wackernagel.....Elizabethtown, Pa.
Rev. S. Martin Wenrich.....Northampton Heights, Pa
Rev. J. Howard Worth.....Atlantic City, N. J.
Thomas McH. Yoder, B.S.....Chicago, Ill.

1902.

Rev. Allen R. Appel.....Philadelphia, Pa.
Charles C. Bachman.....Northampton, Pa.

EFENGER A. BARTHOLOMEW.....Quakertown, Pa.
REV. WALTER C. BECK.....Emlenton, Pa.
H. PHILEMON BRUNNER.....Reading, Pa.
REV. GEORGE S. FEGELY.....Souderton, Pa.
J. RALPHUS FREED, ESQ.....Doylestown, Pa.
REV. WILLIAM H. GABLE.....Superior, Wis.
WARREN GEIGER.....Norristown, Pa.
CHARLES L. H. GLASE.....Oley, Pa.
REV. MATTHIAS R. HEILIG.....Stroudsburg, Pa.
LEWIS A. INK.....Mt. Carmel, Pa.
REV. JACOB KISTLER.....East Stroudsburg, Pa.
QUINCY A. KUEHNER.....Stembersville, Pa.
REV. ANSON W. LINDENMUTH.....Douglasville, Pa.
THEODORE L. LINDENSTRUTH.....Wilkes-Barre, Pa.
RUSSELL B. LYNN, B.S.....Catasauqua, Pa.
MOULTON E. MCFETRIDGE.....Hokendauqua, Pa.
WILLIAM M. D. MILLER, B.S.....Columbia, Pa.
REV. SAMUEL E. MOYER.....Friedensburg, Pa.
LAWRENCE H. RUPP, ESQ.....Allentown, Pa.
JACOB F. SCHOLL.....Allentown, Pa.
REV. FRANK M. UHRICH.....Quakertown, Pa.
REV. JOSEPH L. WEISLEY.....Trenton, N. J.
JOHN M. WOODRING, B.S.....Allentown, Pa.
CLINTON ZERWECK.....New Haven, Conn.

1903.

HARRY E. BARNDT.....Sellersville, Pa.
REV. OLIVER R. BITTNER.....Fredericksburg, Pa.
REV. FRANK CROMAN.....Providence, R. I.
REV. FRANKLIN T. ESTERLY.....Philadelphia, Pa.
JOHN B. GEISINGER.....Bethlehem, Pa.
JACOB D. HEILMAN.....Allentown, Pa.
REV. ERWIN R. JAXHEIMER.....Freemansburg, Pa.
REV. ROGER C. KAUFMAN.....Aurora, Ill.
EDWIN K. KLINE, ESQ.....Allentown, Pa.
REV. MELVIN A. KURTZ.....Boyertown, Pa.
EDWARD G. LEEFELDT.....Staatsburg, N. Y.
R. LORENTZ MILLER.....Emaus, Pa.
REV. PAUL J. NEFF.....Hartford, Conn.
H. E. ORFF.....Reading, Pa.
REV. AUGUSTUS W. ROHRIG.....New Britain, Conn.
REV. WILLIAM H. B. ROTH.....Turbotville, Pa.
REV. ROBERT SCHLOTTER.....Perth Amboy, N. Y.

IRVIN M. SHALTER.....Allentown, Pa.
HARRY W. SHIMER.....Siegfried, Pa.
REV. ARTHUR L. SMITH..... Ricketts, Pa.
GEORGE W. SPECHT.....Hokendauqua, Pa.
REV. C. DANIEL TREXLER.....Brooklyn, N. Y.
JOSEPH M. WEAVER, B.S., M.D.....Allentown, Pa.
CHARLES W. WEBB, ESQ.....Allentown, Pa.
MERVIN J. WERTMAN.....Allentown, Pa.
ORLANDO S. YERGER.....Chicago, Ill.
REV. ALVIN E. YOUSE..... Winnipeg, Man.

1904.

WARREN F. ACKER.....Allentown, Pa.
MARK L. BURGER..... Allentown, Pa.
LAWRENCE G. DEILY.....East Allentown, Pa.
FRANK B. DENNIS.....Nazareth, Pa.
MILTON M. DRY.....Mifflinville, Pa.
ELLIS W. ERNEY..... New Waterford, O.
JOHN C. FISHER.....North Heidelberg, Pa.
HANS S. GARDNER.....Philadelphia, Pa.
BENTON W. H. GOLDSMITH.....Catasauqua, Pa.
LAWRENCE GRIESEMER.....Roselle, N. J.
CHARLES A. HAINES.....Slatington, Pa.
EUGENE M. HANDWERK.....Germansville, Pa.
WALTER J. HUNTSINGER.....Dushore, Pa.
WILLIAM H. KEBOCH..... Allentown, Pa.
J. FRANKLIN KELLER.....Alburtis, Pa.
WILLIAM R. KLECKNER.....Cementon, Pa.
PETER W. LEISENRING.....Allentown, Pa.
LAWRENCE R. MILLER.....Niantic, Pa.
FRANCIS E. REICHARD.....Macungie, Pa.
STILLE A. RENTZHEIMER, B.S.....Hellertown, Pa.
GEORGE H. RHODES.....Gouldsboro, Pa.
HORACE RITTER..... Philadelphia, Pa.
NORMAN Y. RITTER.....Pottstown, Pa.
GEORGE W. SHERER.....Allentown, Pa.
CHARLES A. SMITH.....Montreal, Canada.
DANIEL I. SULTZBACH.....Elizabethville, Pa.
MARTIN J. SWANK.....Hobbie, Pa.
ARTHUR L. WUCHTER.....Allentown, Pa.

1905.

Dallas H. Bastian.....Philadelphia, Pa.
Rev. Charles H. Bohner.....Allentown, Pa.
Wirt A. Dries.....Philadelphia, Pa.
Herbert F. Gernert, B.S.....Trexlertown, Pa.
George E. K. Guth.....Allentown, Pa.
Charles G. Heffner.....Lyon Station, Pa.
John J. Heilman.....Walberts, Pa.
Clarence E. Keiser.....Lyon Station, Pa.
I. Howard Kern.....Hummel's Store, Pa.
Harvey S. Kidd.....Bath, Pa.
William H. Kline.....Maxatawny, Pa.
John J. Marcks.....Wescoesville, Pa.
Charles W. Reinert.....Coplay, Pa.
Frank H. Reiter.....Pennsburg, Pa.
Robert K. Rosenberger, B.S.....Allentown, Pa.
Claude G. Shankweiler.....Allentown, Pa.
Rev. Sven O. Sigmond.....Allentown, Pa.
J. R. Tallman.....Hamburg, Pa.
G. Luther Weibel.....Bowmansville, Pa.

1906.

Thomas H. Bachman.....Neffs, Pa.
Preston A. Barba.....Allentown, Pa.
Warren E. Bittner.....Allentown, Pa.
John D. M. Brown.....Lebanon, Pa.
Harry J. Butz, B.S.....Breinigsville, Pa.
Willie S. Dry.....New Jerusalem, Pa.
Earle T. Henninger.....Eckert, Pa.
Claude O. Hoffman.....Allentown, Pa.
August C. Karkau.....Lansing, Mich.
Howard H. Krauss.....East Greenville, Pa.
Bryan W. Laros, B. S.....Allentown, Pa.
G. Joseph Mueller.....Lancaster, Pa.
Luther A. Pflueger.....Ringtown, Pa.
Frederick A. Reiter.....Richland Centre, Pa.
J. Luther Reiter.....Allentown, Pa.
Rev. Benjamin L. Romberger.....Elizabethville, Pa.
Milton H. N. Ritter.....Macungie, Pa.
Charles E. Rudy.....Lancaster, Pa.
John W. B. Schantz.....Shimerville, Pa.
John S. Schneller, B.S.....Catasauqua, Pa.
Leidy B. Sterner.....Richlandtown, Pa.

Alumni, 628.

UNDERGRADUATES.

(The letter (s) indicates a student in the Scientific Course.)

SENIORS.

Jacob W. Bittner	Allentown, Pa.
Solomon J. Boyer	Allentown, Pa.
H. Leon Breidenbach	Philadelphia, Pa.
Rev. Charles F. Dapp	Sumneytown, Pa.
Willis F. Deibert	Schnecksville, Pa.
Charles W. Ettinger	Allentown, Pa.
Ambrose B. C. Hering	Kutztown, Pa.
Edward T. Horn, Jr	Reading, Pa.
Harold E. Kuhns	Egypt, Pa.
William H. C. Lauer	East Mauch Chunk, Pa.
Harold K. Marks	Allentown, Pa.
Russell C. Mauch	Hellertown, Pa.
Arthur T. Michler	Easton, Pa.
Oliver W. Nickum	Allentown, Pa.
Walter E. Schock	Mount Zion, Pa.
J. Myron Shimer	Allentown, Pa.
Elmer B. Ulrich (s)	Jonestown, Pa.

Seniors, 17.

JUNIORS.

James W. Anthony	Aquashicola, Pa.
Sem G. Beck (s)	Hecktown, Pa.
Fred. L. Coleman	Lebanon, Pa.
Charles T. Jacks	Allentown, Pa.
A. Charles R. Keiter	Bethlehem, Pa.
Morris W. Krause	Kempton, Pa.
George Kuhl	Allentown, Pa.
*Frank H. Marsh	Danielsville, Pa.
Howard S. Paules	Bethlehem, Pa.
Paul H. Rudh	Brooklyn N. Y.
Ralph H. Schatz	Allentown, Pa.
Harry L. Y. Seyler	Reading, Pa.
Alfred M. Stump	Kutztown, Pa.
*LeRoy P. Umbenhauer	Reading, Pa.
Herbert A. Weaver	Mauch Chunk, Pa.
Warren A. Ziegenfus	Aquashicola, Pa.

Juniors, 16.

*Special.

SOPHOMORES.

JOHN S. ALBERT.....Monaca, Pa.
WARREN M. BEIDLER.....Laurys, Pa.
JAMES A. BOSSARD.....Allentown, Pa.
ALLEN W. BUTZ.....Allentown, Pa.
FLOYD L. EICHNER.....Freemansburg, Pa.
ALBERT C. H. FASIG.....Reading, Pa.
J. WARREN FRITSCH.....Allentown, Pa.
DALLAS F. GREEN.....Little Gap, Pa.
BENJAMIN L. GROSSMAN.....Catasauqua, Pa.
WALTER A. HAUSER.....Port Clinton, Pa.
WILLIAM K. HUFF.....Sellersville, Pa.
RUFUS E. KERN.....East Greenville, Pa.
ROBERT F. KLINE (s).....Allentown, Pa.
*SAMUEL R. KULP (s).....Allentown, Pa.
CHARLES A. LAUBACH (s).....Nazareth, Pa.
FREDERICK A. MARCKS.....Emaus, Pa.
CHARLES McCORMICK (s).....Allentown, Pa.
*CARBIN C. MILLER.....Coplay, Pa.
EDGAR V. NONAMAKER.....Bedminster, Pa.
PAUL M. REED.....Reading, Pa.
RALPH R. RUDOLPH.....Allentown, Pa.
*C. R. RULOFF.....Allentown, Pa.
ROGER R. RUPP (s).....Lehighton, Pa.
WALTER C. SANDT.....Philadelphia, Pa.
J. CALVIN SCHUGER.....Alburtis, Pa.
JOHN G. SCHUMAKER.....Breinigsville, Pa.
WILLIAM B. SHELLY.....Quakertown, Pa.
HAROLD W. SHOENBERGER.....Siegfried, Pa.
FRANCIS H. SMITH.....Pottstown, Pa.
JESSE L. STETLER.....Wyomissing, Pa.
HERMAN D. WHITTEKER.....Lancaster, Pa.

Sophomores, 31.

+Special.

FRESHMEN.

JOHN M. ABERLY.....New Bern, N. C.
*AUSTIN J. CANNING.....South Bethlehem, Pa.
AUSTIN H. S. ERNST (s).....Easton, Pa.
GEARY E. EVERETT.....Long Pond, Pa.
*NEVIN P. FEGELY (s).....Cementon, Pa.
RALPH S. FUNK (s).....Gilbert, Pa.

Clayton S. Gernet	Bath, Pa.
John Hassler	Womelsdorf, Pa.
Paul P. Huyett	Wernersville, Pa.
Martin S. Kleckner (s)	Allentown, Pa.
Elbert E. Landis	Perkasie, Pa.
*Earle D. Laros	Easton, Pa.
*C. Harold McCreery (s)	Bridgewater, N. S.
Curtis A. Miller	Gratz, Pa.
Ober Morning	Elizabethtown, Pa.
Henry R. Pott	Allentown, Pa.
Paul Putra	Lansford, Pa.
L. Frank Raup	Catawissa, Pa.
John A. Reid	Hokendauqua, Pa.
Karl L. Reisner	Millersville, Pa.
Howard E. Ruhe	Allentown, Pa.
Arthur H. Schmoyer	Alburtis, Pa.
Asher F. Shupp	Effort, Pa.
Roy F. Shupp	Gilbert, Pa.
*Harry R. Snell	Lebanon, Pa.
*Clarence A. Snyder	Fullerton, Pa.
Kotaro Tanaka (s)	Tokyo, Japan.
*Agnew S. Tryon (s)	Rehrersburg, Pa.
*Jay Trexler (s)	Topton, Pa.
*Leon F. Werley	Breinigsville, Pa.
Josiah A. Werner	Emaus, Pa.
Nathan B. Y. Yerger	Oley, Pa.
Jonathan F. Zane, Jr., (s)	Lansdale, Pa.
Fred W. Zuch	Marietta, Pa.

Freshmen, 34.

*Special

SUMMARY.

Seniors	17
Juniors	16
Sophomores	31
Freshmen	34
Students in Allentown Preparatory School	109
	207
Names appearing twice	16
Total	191

COLLEGIATE DEPARTMENT.

TERMS OF ADMISSION.

Candidates for admission to the Freshman Class of the Classical Course, except such as are admitted on certificate from reputable and properly accredited fitting schools, must sustain an examination in the following subjects:

Greek.—Greek Grammar, and Prose Composition as found in White's First Lessons in Greek, and four books of Xenophon's Anabasis.

Latin.—Latin Grammar, and Prose Composition as found in Collar and Daniel's First Latin Book, four books of Cæsar's Commentaries, four books of Virgil's Æneid, and four orations of Cicero.

English.—English Grammar complete and English Composition. Applicants must also have read the books in English prescribed by the "Association of Colleges and Preparatory Schools in the Middle States and Maryland," or equivalents, and be examined on the same. In place of part or whole of this test, the candidate may present a properly attested exercise-book containing compositions and other written work done in connection with the reading of the books.

The books set for General Reading are:

1907-8.—Shakespeare's Macbeth and Merchant of Venice, Addison's Sir Roger de Coverley Papers, George Eliot's Silas Marner, Coleridge's Ancient Mariner, Lowell's Vision of Sir Launfal, Scott's Ivanhoe and Lady of the Lake, Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur, and Irving's Life of Goldsmith.

For Special Study:

1907-8.—Shakespeare's Julius Cæsar, Milton's L'Allegro,

Il Penseroso, Comus, and Lycidas, Macaulay's Addison and Johnson, Burke's Conciliation with America.

German.—German Grammar as found in Joynes-Meissner's Grammar as far as Syntax.

History.—History of the United States.

Geography.—Ancient and Modern Geography.

Mathematics.—Arithmetic including the Metric System, Wentworth's Higher Algebra through Quadratics, and Wentworth's Plane Geometry.

Physics.—Elementary Physics as found in a work like Mann and Twiss' Physics, with special reference to the Laws of Boyle and Gay-Lussac, Heat, and the common forms of Galvanic Batteries.

The requirements for admission to the Freshman Class of the Scientific Course are the same as those for the Classical with the exception of Greek, which is not required of candidates for the Scientific Course.

Candidates for advanced standing, in addition to the above requirements, must sustain a satisfactory examination in the various branches which the class they propose to enter has pursued.

An accurate and thorough acquaintance with the studies required for admission is indispensable.

No student will be received whose moral character is not known or attested to be good, and those coming from other institutions must bring certificates of regular and honorable dismissal.

Applicants will be received upon these conditions at any time, but are urged to present themselves for examination either at the close of the college year in June, or promptly at the opening of the term in September. Applicants are advised, however, to present themselves in June so that all necessary conditions imposed at that time can be satisfied, if possible, during vacation.

DEPARTMENTS OF INSTRUCTION.

There are two departments, under which the various courses are grouped, the *Classical* and the *Scientific*. With a necessary nucleus of required studies there is combined in the higher classes such a range of electives as may properly be left to the choice of the individual student. But even among electives certain studies are required of or recommended to those who are preparing for theology or medicine. All other students have as wide and free a choice as a liberal or scientific collegiate education, and the attestation which the respective degrees ought justly and historically give, will wisely permit.

The *Department of Arts* looks to the general liberal culture, which is a pre-requisite for any of the learned professions or for specialization of languages, history, philosophy in university work. The courses in the Department of Arts are also those which will most benefit any man seeking a higher education, that is becoming so valuable in any walk of life, and especially the higher business interests of our age.

The *Department of Science* with a broad basis of general knowledge places Modern Languages and Mathematics in the centre. It offers a good collegiate preparation for special university work in the Sciences, and is of advantage to the future student of medicine. At the same time it offers a good education for young men who intend devoting themselves to any of the industrial arts.

Special Courses may be chosen in these departments by those that are qualified to undertake such work with advantage; but this is not generally advisable.

COURSES OF INSTRUCTION.

CLASSICAL COURSE.

Leading to the Degree of Bachelor of Arts.

FRESHMEN.

	Hours.
Religion I.	1
Greek I, II, III.	3
Latin I, II, III, IV.	3
English I, II, III, IV.	3
German I.	3
French I.	1
History I, II, III	1
Mathematics I, II, III.	3
Physiology (Biology VII)	1
Physical Education	2

SOPHOMORES.

	Hours.
Religion II.	1
Philosophy I, II.	1
Greek IV, V, VI.	3
Latin V, VI, VII, VIII, IX.	3
English V, VI.	3
German II.	2
French II.	1
History IV.	2
Mathematics IV, V, VI, VII*	2
Chemistry I	2
Physical Education	1

JUNIORS.

	Hours.
Religion III.	1
Philosophy III.	1
Greek VII, VIII, IX.	3
Latin X, XI, XII, XIII.	3
English VII, VIII, XI.	2
History V. VII.	3
Physics I, II.	2

*Course VIII required of those who will elect Mathematics in Junior year

Electives (5 hours must be chosen).

Pedagogy I.	1
English XII.	1
Latin XIV, XV.	1
*German III.	2
French III.	2
Spanish I.	1
Music I.	1
Mathematics IX, X.	3
Chemistry II, III	2
Physics	3
Biology IV, V.	1
Biology X, XI.	2

*Required of students about to study Theology.

SENIORS.

	Hours.
Religion IV, V, VI	2
Philosophy IV, V.	2
English IX, X, XI.	2
Social Science I, II.	2
Astronomy (Mathematics XI)	1

Electives (8 hours must be chosen).

†Religion VII	1
Pedagogy II.	1
*Greek X, XI, XII.	2
Greek XIII, XIV.	1
*Latin XVI, XVII, XVIII, XIX.	2
Latin XX, XXI.	1
English XIII or XIV.	1
*German V.	2
French IV.	2
Spanish II.	1
History VI.	2
Music II.	1
Chemistry IV	2
Geology I	2
Mineralogy I.	1
Meteorology I.	1
Biology I.	3
Biology VIII or IX.	2

*Required of students about to study Theology.
†Required of Lutherans.

SCIENTIFIC COURSE.

Leading to the Degree of Bachelor of Science.

FRESHMEN.

	Hours.
Religion I.	1
Latin I, II, III, IV.	3
English I, II, III, IV.	3
German I.	3
French I.	1
History I, II, III.	1
Mathematics I, II, III.	3
Biology I, II, III.	3
Physiology (Biology VII).	1
Physical Education	2

SOPHOMORES.

	Hours.
Religion II.	1
Philosophy I, II.	1
English V, VI.	3
History, IV.	2
German II.	2
French II.	1
Mathematics IV, V, VI, VII, VIII.	3
Chemistry I, II.	3
Physical Education	1

Electives.

Latin V, VI, VII, VIII, IX.	3
Biology VI.	3

JUNIORS.

	Hours.
Religion III.	1
Philosophy III.	1
English VII, VIII, XI.	2
German IV.	2
French III.	2
Mathematics IX, X.	3
Chemistry II, III	2
Physics I, II	2

Electives (5 hours must be chosen).

Pedagogy I.	1
Latin XIII, XV	1
English XII.	1
History V, VII.	3
Spanish I.	1
Music I.	1
Chemistry IV, V	2
Biology IV, V	1
Biology X, XI	2

SENIORS.

	Hours.
Religion IV, V, VI	2
Philosophy IV, V	2
English IX, X, XI	2
Social Science I, II	2
Chemistry IV	2
Geology I	2
Astronomy (Mathematics XI)	1

Electives (8 hours must be chosen).

*Religion VII	1
Pedagogy II.	1
English XIII or XIV	1
German VI.	2
French IV.	2
History VI.	2
Spanish II.	1
Music II.	1
Chemistry VI.	2
Mineralogy I	1
Meteorology I.	1
Biology VIII or IX	2
Biology XIII, XIV	2
Biology XII (3d Term)	3

*Required of Lutherans.

COURSES OF INSTRUCTION

RELIGION.

THE PRESIDENT, PROFESSORS WACKERNAGEL AND BAUMAN.

Believing an intellectual without a spiritual training to be a grave error, Muhlenberg College strives, throughout its entire course, to secure not only a proper study of religion, as a science, but also a consistent practice of it. Convinced also that a vague, general religious knowledge is ineffectual, it imparts and inculcates its instructions loyally and specifically. While the position of Muhlenberg College is conservatively Lutheran, and true to the Church which has founded and endowed it, yet it is by no means narrow nor exclusive. The work of each day is begun with worship in the Chapel, attendance at which is expected. Attendance upon the morning service of some specified church on the Lord's Day is also required, while connection with Sunday-school, as scholar or teacher, is recommended.

I. **An Outline of Biblical History** (1st term), giving the historical facts of the Bible. One hour, Freshmen required, by Professor Wackernagel.

II. **The English Bible** is now taken up and studied in an historical and literary way, but finally to show the growth of revelation. This first course includes readings and character studies in the *historical books of the Old Testament.* In connection with this and the following courses, *Bible Literature* (Haas) is studied as auxiliary. One hour, Sophomore required, by the President.

III. **The Study of the Old Testament** (English Bible) is continued; the historical and religious place of the *prophets* is indicated; the literary, historical and religious place of the *prophets* is indicated; and the *poetry* and *wisdom books* are examined. One hour, Junior required, by the President.

IV. **The New Testament** (English Bible) is partly read to obtain a view of the *life of Christ,* and an outline of *apostolic truth.* One hour, Senior required, by the President.

The regular religious instruction begins with an outline of Bible History. All of the courses in the English Bible in their constructive work meet present-day errors. The actual difficulties of the Bible are not overlooked, but honestly studied from the religious centre. But all of this religious study is general and not technically theological. It keeps within the bounds of collegiate work. The courses in Natural Theology, Theism and Christian Evidences serve to answer the great fundamental and apologetic questions of Christianity in a systematic, philosophical method. The confessional attitude of Lutheranism is discussed in a series of lectures on the Augsburg Confession.

V. **Studies in Theism.** The book placed in the hands of students is Prof. Flint on Theism. Among the subjects discussed are: The issues involved in the question; general idea of religion; the nature, conditions and limits of theistic proof; the argument from order; the moral argument; a priori theistic proof; mere Theism insufficient, connecting the argument with the claims for a special revelation. The argument aims to meet the objector on his own ground, and, from a critical study of the universe itself, show the solid basis on which Theism rests. Senior required, half the year, one hour, Professor Bauman.

VI. **Evidences of Christianity.** With Prof. Fisher as a guide in the study, the Gospel History is examined, and sought to be defended against the various forms of modern critical unbelief, showing that this is credible history, and rests upon foundations which cannot be overthrown without violence to all the laws of evidence. The study is well adapted to beget sober investigation of the claim of Christianity, as well as to fortify the young men against current skeptical thought. Half the year, one hour, Senior required, Professor Bauman.

VII. **The Elements of Religion** will be discussed in a series of lectures on "The Augsburg Confession," to be delivered during the Senior Year. The name of the lecturer will be announced in due time. Required of Lutherans intending to study theology; elective for others.

PHILOSOPHY.

THE PRESIDENT.

The purpose of the courses in Philosophy is in their beginning to develop the power of clear reasoning and accurate statement (logic), and in their end to show the value of

philosophical system, familiarize with philosophical terms, and indicate the movement of philosophical thought, history of Philosophy, which underlies thinking.

The study of Psychology is to prepare for a general understanding of the relation of mind and body. It may be followed in its physiological bearings by the Senior elective in Experimental Physiology (course in Biology). Ethics is the necessary supplement to general philosophical study, but also has important practical bearings. Pedagogy is occupied with the philosophy of education, and many of its attitudes rest upon general philosophical positions. All these courses look only to general principles, but prepare for detailed post-graduate university work.

I. **Formal Logic.** Mainly the outlines of the necessary forms of thinking; terms, propositions, syllogisms, fallacies of thought. Practical exercises are given. One hour, Sophomore required, first term, by the President. (Elements of Deductive Logic, Noah K. Davis.)

II. **Inductive Logic** distinguishes clearly from deductive reasoning the inductive process, that underlies most of modern science. The principles of true inductive inference, agreement, difference, causation, hypothesis, analogy, probability, empirical laws are considered. One hour, Sophomore required, 2d term, by the President. (Davis, Inductive Logic.)

III. **Psychology.** The questions of distinction of psychology from physiology, sensations, perception, feelings, thought, volition and the self, etc., are studied in outline, preparing for better, fuller work. One hour, Junior required, by the President. (Baldwin, Elements of Psychology.)

IV. **History of Philosophy.** This course aims to acquaint the student with what are the great philosophical questions, by an outline of Greek philosophy with special emphasis of Socrates, Plato, Aristotle. Through Descartes and Locke, after a brief review of the Middle Ages, the modern development is indicated. One hour, Senior required, by the President. (Lectures and Discussions on the Basis of Weber, History of Philosophy.)

V. **Ethics,** A course of the principles of Morality, discussing Hedonism, Rationalism, Eudaemonism, virtue, duty, the conscience, and the practical application of sound, natural morality and the final development of ethics in its highest Christian form. One hour, Senior required, by the President. (Lectures.)

PEDAGOGY.

PROFESSOR ETTINGER.

This department offers a two years' course embracing the History of Education, Educational Psychology, Methodology, and a study of Educational Classics. The History of Education traces the development of pedagogic thought and theory from the earliest times to the present. This is followed by a study of Psychology with special reference to its relation to education. Under Methodology the educational value of the various subjects usually taught, the proper methods of teaching the same, and the most important questions of school management are discussed. The study of Educational Classics affords scope for criticism and exacts original work by the class. The course in this department is conducted by means of recitations from text-books, lectures, and original papers by the class.

I. **History of Education** (Painter or Compayre). Educational Psychology (Sully's Hand-Book). One hour.

II. **Methodology** (Compayre's Lectures on Pedagogy). One hour.

MUSIC.

PROFESSOR MARKS.

This department does not aim to give formal instruction on any specific instrument, much less to turn out so-called "finished musicians." The object of the courses offered is to afford the student a comprehensive knowledge of the theory and history of music so that he can the better appreciate the true place and value of the same as an element of culture in the development of the individual.

I. **The Theory of Music.** The Elements of Music, Harmony, Form. Throughout the year, one hour, elective for Juniors.

II. **The History of Music.** Antiquity, Music of the Early Christian Age, Polyphonic Music, The Lutheran Reformation, Schools of Music, Contemporary Composers, Biography. Throughout the year, one hour, elective for Seniors.

THE ANCIENT LANGUAGES.

PROFESSORS ETTINGER AND HORN.

GREEK.

PROFESSOR HORN.

The aim of the four years' work is to give the student so firm a grasp of grammar and so large a vocabulary that he will be able with comparative ease to read any ordinary (Attic) Greek text, and at the same time to make him familiar with the best writers of Greece, and to give him an intelligent acquaintance with Greek history, geography, institutions, and culture. The work will be such that a student will be fitted for graduate work at the larger institutions of learning. Throughout the course, stress is laid upon the geography and history of Greece; lectures, some of which will be illustrated by the stereopticon, will be given on these and similar subjects. The department has been recently furnished with the best ancient maps, by Henry Kiepert, and every aid will be afforded the student for geographical work. In the college library there will be reserved many books, to which students will be frequently referred, and which will be in constant use.

The Greek Room has been adorned with a copy of the most celebrated bust of Homer and with pictures of remains at Athens and of busts of the gods; the Department has been furnished with many pictures representing Greek art and architecture, scenery and historic places, and with a number of lantern slides illustrating Greek life, art and history. These will be used for the purpose of instruction. The department acknowledges with thanks a donation for slides from Rev. Arthur G. Flexer, of the Class of 1900.

Each member of every class should own the following books: Goodwin, Greek Grammar, revised edit.; Goodwin, Moods and Tenses of the Greek Verb, new edit.; Kiepert's Atlas Antiquus or Putzger's Historical School Atlas; Liddell and Scott's Greek Lexicon, unabridged, preferably one of the latest editions. Note books will be needed.

I. **Iliad.** First term, two hours a week. Required of Classical Freshmen.

II. **Herodotus.** Selections from Books VI and VII. Second term, two hours a week. Required of Classical Freshmen.

III. **Greek Prose Composition.** One hour a week throughout the year. Required of Classical Freshmen.

The work in the Freshman Class begins with Homer's Iliad, and during the last term Herodotus is read. Particular attention is directed to the language, and the variations from Attic Greek are pointed out. There will be abundant opportunity to review the more difficult parts of the grammar. In connection with the study of Homer instruction and frequent drills in scanning dactylic hexameter are given. The course in prose composition will familiarize the student with idioms, aid him in grammatical study, and enable him to write ordinary connected prose. Some training in Ancient Geography will be given in connection with the reading of Homer and Herodotus. (Benner, Selections from the Iliad; Mather, Selections from Herodotus and Thucydides; Woodruff's New Greek Prose Composition, edition of 1905.)

IV. **Plato: Apology and Crito.** First term, three hours a week. Required of all Classical Sophomores.

V. **Lysias: Orations.** Second term, three hours a week. Required of all Classical Sophomores.

VI. **Greek Literature.** Lectures, assigned reading, and reports throughout the year. Required of all Classical Sophomores.

The work of this year is confined to Greek prose. In the first term, in connection with the reading and explanation of Plato's Apology and Crito, the life of Socrates is studied, and the style of the dialogue is considered. Athenian legal antiquities are discussed in lectures or reports; this is continued in the second term, in connection with the study of Lysias. Greek Literature is taught by assigned reading, reports, and occasional lectures. (Plato's Apology and Crito, Dyer; Lysias, Morgan; Jebb, History of Greek Literature. Other books will be reserved in the College Library.)

VII. **The Drama.** Greek Tragedy. Three hours a week, first and part of second terms. Æschylus' Prometheus Bound; Sophocles' Antigone. Required of Classical Juniors.

VIII. **Demosthenes.** De Corona. Three hours a week, second term. Required of Classical Juniors.

IX. **Greek History.** Lectures, assigned reading, and reports. Required of Classical Juniors.

The first term and a part of the second will be devoted to the study of Greek Tragedy. Two plays will be read, translated, and interpreted in class; these will be changed from year to year.

Of the plays not read in the original, three or four of each tragic poet will be read in the best metrical English versions, and reports made upon them. There will be occasional lectures on the History of the Greek Drama, The Chorus, The Greek Stage, The Presentation of a Play, Scenic Antiquities, and the like; some of which will be illustrated with the stereopticon. Collateral reading is a part of the course; books are reserved in the College Library. The aim of the course is to make the students thoroughly familiar with the nature of Greek tragic literature.

The last term is devoted to the study of De Corona, as an example of finished oratorical style, and as an exponent of the history of the period of Macedonian aggression. Stress is laid upon the history of the period; and the student should read, before entering the course, Grote's History of Greece, chapters 86-90 and 95.

Greek History will be taught by assigned reading and lectures. Botsford's History of Greece is required; other books will be reserved in the library. (Æschylus' Prometheus, Wecklein-Allen; Sophocles' Antigone, D'Ooge; Plumptre's Translation of Æschylus; Plumptre's Translation of Sophocles; Demosthenes' De Corona, D'Ooge; Botsford's History of Greece.)

X. **Phaedo.** One hour a week throughout the year. Elective for Seniors.

XI. **Greek New Testament.** One hour a week throughout the year. Elective for Seniors.

In this year Greek is elective. Those who expect to teach the Classics and those who expect to pursue graduate studies in the Classics or Philosophy, should take X. Candidates for the ministry will take X and XI. The former consists of the reading and exposition of Plato's Phaedo, with discussions. The course is valuable as it gives an opportunity to read in the original some portion of Greek philosophical literature. In XI, several books of the New Testament will be read, translated, and studied in class; other portions of the Testament will be read privately. The work is mainly linguistic and literary; variations from Classical Greek are pointed out and discussed. Together with these courses, there will be some assigned reading, and reports on topics connected with Greek

Private Life. (Wagner's Phaedo of Plato, revised by Clement; Westcott and Hort's Greek New Testament. Other books will be announced later.)

XII. **Euripides and Aristophanes.** One hour a week throughout the year. Elective for Seniors.

In order to afford to students who have taken Course Vii the opportunity of reading some of Euripides and of studying Greek Comedy in the works of Aristophanes, this course of one hour a week has been arranged. During the first term Euripides' Medea will be read; during the remainder of the year, the Frogs of Aristophanes. Several other plays of both of these poets will be read in the best English translations, and reports will be prepared upon the same. Occasional lectures will be given on the life and work of Euripides and on topics connected with Greek Comedy. Assigned reading is a part of the course, which is similar in aims and method to VII. (Medea of Euripides, Moore; Kock's German edition of the Frogs of Aristophanes, or Merry's English edition.)

LATIN.

PROFESSOR ETTINGER.

The courses offered in this department are intended to afford the student such a knowledge of the language, the thought, the life and the antiquities of the Roman people and the "Eternal City" as an intelligent cultured American of to-day may be justly expected to possess. Without aiming to train Latin philologians or Roman archæologists, which is altogether the business of the university, Muhlenberg College offers such courses based on the study of the masterpieces of Roman Literature as will afford an accurate and comprehensive survey of the character, the history and the achievements of this wonderful people, the important part they played in the development of the human race and their contributions to the Modern Languages, literatures, jurisprudence and government in general. The work in this subject furthermore aims to lay the broad and deep foundations so necessary for successful post-graduate study.

That the student may receive the fullest benefit from the courses in this department, it is absolutely essential that he bring with him, when entering college, such a knowledge of the fundamentals of Latin Grammar and elementary Latin prose composition together with a fair and ready command of the vocabulary of the Roman speech as will enable him to take an active and intelligent part in the work of the class-room. In this connection we cannot too strongly emphasize the importance of honest and sufficient work in the preparatory school.

The work of the earlier part of the Freshman year, of necessity, partakes somewhat of the character of preparatory work, as the members of the class coming from various schools with various degrees of preparation must first be drilled into as homogeneous a body of workers as circumstances permit. Hence special stress is laid on grammatical forms, analysis of sentences, idiomatic expressions and the derivation of words. In connection with the reading of standard authors like Livy, Cicero and Horace, Latin prose composition and the grammar are studied throughout the year.

In the Sophomore year the satires, epistles and Ars Poetica of Horace and the satires of Juvenal and the letters of Pliny furnish the main material for translation into English and Latin essays are prepared, read and criticised before the class.

In the Junior year Cicero's De Oratore affords an introduction to the consideration of Roman oratory while Roman comedy is represented by the best of the plays of Plautus and Terence. During this year also the history of Roman Literature is more fully illustrated by a series of biographical and critical dissertations on the leading Latin writers and their works.

During the Senior year Roman Philosophy will be studied in the De Rerum Natura of Lucretius, to be followed

by the two gems of Tacitus, the Germania and the Agricola. Should any spare time for translating remain, it will be devoted to reading selections from the Church Fathers. Roman Antiquities will be illustrated by means of photographs, stereopticon views and a series of dissertations on the principal subjects in this course. There will also be offered elective courses in Early Latin, Roman Archæology, Roman Law and Latin Literature in the English Language.

In all the work of the Latin Department special attention will constantly be paid to the translation of the texts into idiomatic English and to the derivation of English words from the Latin. Thus the student, while learning Latin, at the same time will also enlarge and enrich his knowledge of the mother tongue.

[Allen and Greenough's Latin Grammar is used as the general authority and all students are urged to provide themselves with Harper's Larger Latin Dictionary as the smaller dictionaries will not suffice for the work in the higher classes. The Roman system of pronunciation is used.]

I. **Livy.** Selections from Books I, XXI and XXII. The history of the Punic Wars. With special attention to vocabulary, forms and construction. First term, two hours. Required of all Freshmen.

II. **Cicero.** De Amicitia, and De Senectute. With special attention to the idioms and the derivation of words. Second term, two hours. Required of all Freshmen.

III. **Horace.** Odes and Epodes. Selections with special study of the biographical, historical and mythological allusions and frequent practice in scanning the metres of Horace. Third term, two hours. Required of all Freshmen.

IV. **Latin Grammar and Prose Composition.** A careful review of the grammar combined with original work in composition on the part of the student. Throughout the year, one hour. Required of all Freshmen.

V. **Horace.** Satires and Epistles, especially the Ars Poetica. Selections with special reference to the beauty of thought, the felicity of expression and the philosophical value of the works of Horace. First term, two hours. Required of all Sophomores.

VI. **Juvenal.** Selections from his satires with a study of Roman satire, especially as represented by Juvenal and Horace, together with a survey of the life and times of the author. Second term, two hours. Required of all Sophomores.

VII. **Pliny.** Selected Letters. With a study of the times, the man and his Latinity, and the art of Roman letter-writing. Third term, two hours. Required of all Sophomores.

VIII. **History of Rome.** A careful survey of Roman History with special emphasis of the leading events. Half a year, one hour. Required of all Sophomores.

IX. **Latin Essays.** Original essays and translations of assigned passages to supplement as much as possible the student's knowledge of forms and idioms. Half a year, one hour. Required of all Sophomores.

X. **Cicero.** De Oratore. Selections with a survey of Roman oratory and special reference to the rhetorical value of the work. First term, two hours. Required of Classical Juniors.

XI. **Plautus.** The Captives, with an introductory study of Roman Comedy. Second term, two hours. Required of Classical Juniors.

XII. **Terence.** The Andria. The art of Plautus and Terence compared. Third term, two hours. Required of Classical Juniors.

XIII. **Roman Literature with Dissertations.** The study of some good text-book supplemented with original dissertations on the leading Latin authors read before the class. Throughout the year, one hour. Required of Classical Juniors.

XIV. **Early Latin.** Remnants of Early Latin. Elective for Classical Juniors.

XV. **Latin Literature in English.** For this course no knowledge of Latin is necessary. It will treat the subject as literature to be studied in standard and idiomatic English translations. Elective for all Juniors.

XVI. **Lucretius.** Selections from De Rerum Natura with a survey of Roman Philosophy. First term, two hours. Required of such Seniors as intend to study theology; elective for others.

XVII. **Tacitus.** The Germania and The Agricola. With a special study of the purpose of these works and the conditions of the period of Roman History. Second term, two hours. Required of such Seniors as intend to study theology; elective for others.

XVIII. **Later Latin.** Whatever time may be left will be devoted to a study of Latin hymns or selections from the prose of the Church Fathers. Third term, two hours. Required of such Seniors as intend to study theology; elective for others.

XIX. **Roman Antiquities with Dissertations.** Assigned topics will be treated in original dissertations to be read before the class. Throughout the year in connection with the Senior courses in Latin. Required of such Seniors as intend to study theology; elective for others.

XX. **Roman Archæology.** Elective for Classical Seniors.

XXI. **Roman Law.** An elementary survey of the subject with special reference to its relations to modern law. Elective for Classical Seniors.

ENGLISH.

PROFESSOR OCHSENFORD.

The English Course in Muhlenberg College is a comprehensive one, embracing all the branches that have a bearing on the language and its literature, and affords opportunity for a thorough study of the language we speak, with special reference to its structure, history and literature.

Experience shows that frequently least is known of that with which men regard themselves as most familiar. A thorough knowledge of the language we speak, day after day, is as necessary as it is unusual. Applicants for admission to colleges are, as a rule, poorly prepared in English, however carefully they may have been prepared in Mathematics, the Classics, and Elementary Science. This is a mistake; for the colleges cannot do the work of teaching to spell, to punctuate, to read, and to express thought in simple but grammatical sentences. This work must be done in the Preparatory School, as a basis for the larger, wider, and more important work of the college, or else the most painstaking and patient efforts to build on the foundation, which has been reasonably assumed to exist, must inevitably fail. Nevertheless, in connection with the earlier stages of the English course in Muhlenberg, efforts are made to supplement the elementary knowledge acquired in the preparatory schools, and to supply the essentials of English that may have been overlooked or neglected in the preparatory course. The course in English presupposes the completion of Eng-

lish Grammar and Rhetoric, together with such other elementary studies as generally belong to a preparatory course in English.

Two objects are constantly kept in view: (1) To aid students in acquiring a correct knowledge and ready use of the English language, and (2) to cultivate a taste for good literature by a critical study of the best English and American authors and furnishing the students with a carefully selected list of books to be read on some of which they are examined.

In all classes, as may be seen by an examination of the courses in detail, as presented herewith, much value is attached to rhetorical exercises, which are intended to give students practical drill in public reading and speaking. These are carried on partly under a professor's direction and partly in the College Literary Societies, the exercises of which are regarded as part of the course and membership in one of these Societies is made obligatory on the part of all the students.

I. **History of the English Language.** This course embraces lectures on general philology, with special reference to the English language in its relation to the other branches of the Aryan or Indo-European stock, more especially the Germanic branches; and a thorough study of the history of the English language, with special attention to its elements, structure, characteristics, growth and changes. Freshmen required. One hour a week throughout the year. Text: "History of the English Language" (Lounsbury).

II. **Forms of Discourse.** This course embraces the essentials of English composition, with special attention to style in the art of composition, together with a thorough study of the various forms of discourse, their character and structure, as exhibited in narration, description, exposition, and argumentation and persuasion; and essays illustrative of each of these forms. Books, illustrating style and the different forms of discourse, are required to be read during the year. Freshmen required. One hour a week throughout the year. Text: "Forms of Discourse" (Cairns).

III. **Studies in Literature.** This course embraces a critical study of literary selections from the most important periods of English and American Literature, with special reference to grammatical structure, rhetorical forms, and style. Freshmen required. One hour a week

throughout the year. Text: "Studies in English Literature" (Swinton).

IV. **Freshman Rhetorical Exercises and Essays.** In connection with studies in Literature a part of the hour each week is devoted to practical drill in reading and speaking. Special attention is given to vocal training, in order to eradicate disagreeable and uncouth mannerisms, and to train students in articulation and in the correct pronunciation of words commonly mispronounced.

An essay each month during term time is required, besides other written exercises and tests.

V. **English and American Literature.** This course embraces a general survey of the history of English Literature from the earliest period to the present, with as much of an examination of the works of the principal authors, as time may permit, together with critical reviews of the most important masterpieces of English Literature. This is followed by a general survey of the history of American Literature, and is intended to show the close relation of the two, as well as the rise and growth of an independent literature in America. Critical essays are required on important periods and masterpieces. Sophomore required. Two hours a week throughout the year. Texts: "History of English Literature" (Simonds), "History of American Literature" (Pattee).

VI. **Sophomore Essays and Speeches.** Essays are required throughout the year, chiefly on subjects connected with the branches studied, besides the criticisms mentioned in Course V.

One essay each month during term time is required.

One hour a week, during the first and second terms, is devoted to practice in public reading and speaking, when a certain portion of the class is required to read or declaim, as frequently as the size of the class may permit. This course embraces: Drill in vocal expression, declamation, position and gesture; drill in the reading of prose and poetry, using selections from the writings of the best English and American authors, e. g., Shakespeare, Milton, Wordsworth, Tennyson, Browning, Longfellow, Emerson and others. Sophomore required. One hour a week during the first and the second terms. Text: Espenshade's "Forensic Declamations."

VII. **English Literature and Literary Criticism.** This course embraces a critical study of Chaucer and Spenser, using carefully annotated texts for the study of literary forms, philological changes in the language and interpretation of thought. Of Chaucer, the famous Prologue is studied and one or two of the Canterbury Tales are required to be read with special reference to poetic structure and

style, noting also the changes in the language as compared with earlier periods. Of Spenser, portions of "Faery Queene" are studied in the same manner, with special attention to the structure and characteristics of the Spenserian stanza. In addition to the critical study of these texts, the class during the third term takes up the study of Literary Criticism, its principles and characteristics.

Junior required. One hour a week throughout the year. Texts: Mather's Chaucer (first term); "In the Days of Chaucer" (Tudor Jenks); Kitchin's Spenser (second term); Johnson's Elements of Literary Criticism (third term).

VIII. **English Poetry and Prose.** This course embraces a critical study of the structure and forms of English poetry, including the ballad, sonnet, ode, lyric and epic forms of poetry, with examples illustrative of each form; structure and technique of dramatic art, with special reference to the English drama, its structure and development from the miracle plays to the highest type as exhibited in the plays of Shakespeare; and the character, form and development of English prose fiction. Junior required. One hour a week throughout the year. Texts: "Forms of English Poetry" (Johnson); "The Drama, Its Law and Technique" (Elizabeth Woodbridge); "English Prose Fiction" (Bliss Perry).

Essays and written tests on assigned subjects, bearing on work connected with courses seven and eight, are required during the year. Books covering the same ground are required to be read.

IX. **English Literature and Art Criticism.** This course is a continuation of the Junior course in English Literature and embraces a critical study of one or more of Shakespeare's best plays and the first two books of "Paradise Lost," with carefully annotated texts. Special attention is given to literary forms, the interpretation of the drama, and the structure and form of epic poetry. Philological questions are discussed as they arise in connection with the study of these authors.

In addition to these literary studies, the class, during the third term, takes up the study of Art Criticism, covering the field of fine arts, of painting, sculpture, and architecture, their philosophy, function and historic accomplishment. Senior required. One hour a week throughout the year. Texts: Hudson's Shakespeare (first term); Paradise Lost, Books I and II (second term); Brown's The Fine Arts (third term).

X. **Senior Course in English Literature.** This course embraces work in English Literature, on the following basis:

(1) Critical study of the English Drama from the beginning, including Miracle Plays, Moralities, English Chronicle Plays and the English Drama immediately preceding and succeeding the Shakespearean period, supplemented with lectures. Text: Manly's Specimens of the Pre-Shakespearean Drama.

(2) The Romantic Period in English Literature, noting its characteristics and its influence. Text: Phelps' "English Romantic Movement."

(3) A critical study of the English Literature of the Twentieth Century, compared with the earlier periods.

Senior required. One hour a week throughout the year.

Essays and written tests on subjects connected with courses nine and ten are required during the year. Books covering the same ground and illustrating the material presented are required to be read.

XI. **Debates and Orations.** The Senior and Junior Classes meet once a week during the first and second terms, either to deliver original orations or to engage in extemporaneous debates. One hour a week during first and second terms. This course embraces: The preparation and delivery of at least two original orations; study in oral argument; the preparation of argumentative briefs and engaging in debates.

Attendance of all the members of the two classes is required.

XII. **Anglo-Saxon** (Old English). This course embraces a careful study of the Principles of Grammar and a critical study of Anglo-Saxon texts in prose and poetry, together with a critical study of Early English as presented in Langland's "Piers the Plowman." Junior Elective. One hour a week throughout the year. Texts: "First Book in Old English" (Cook), Skeat's annotated edition of "Piers the Plowman," and annotated Anglo-Saxon texts.

XIII. **Advanced Course in English.** This course embraces the study of comparative philology, the foundation and beginnings of English Literature, and a comparative study of English and Continental Literature:

(1) Comparative English Philology.

(2) Foundations of English Literature on the basis of Prof. Pattee's excellent work under this title, and Brooke's equally excellent work on "Early English Literature."

(3) Comparative study of English and Continental Literature, on the basis of Botta's "Hand-book of Universal Literature."

These subjects are studied with special reference to the English Language and its Literature. The course is open to those who have taken courses I, V, VII and XII.

Hours and work to be assigned. Texts as given above.

XIV. **Advanced Course in Middle English.** This course embraces a survey of the general principles of the science of language on the basis of an approved text-book, supplemented with lectures, and a critical study of authors of the Middle English period, especially of the Elizabethan period, on the basis of carefully annotated texts, as embraced in Heath & Co.'s Belles-Lettres Series, Section II, Middle English Literature. This course is open to those who have taken courses VII, XII and XIII. Hours and work to be assigned.

THE MODERN LANGUAGES.

PROFESSOR WACKERNAGEL.

The study of the Modern Languages is a regular part of the College Course. This department receives a full proportionate share of time and attention, and stands upon the same basis, in this respect as Greek, Latin, or English. German, French and Spanish are taught both as living languages to be acquired as a medium of communication and as treasure-houses of scientific, theological and literary material, the key to whose wealth must be owned and readily used by the post-graduate student. Our experience enables us to assert that any student of respectable intellect and industry can acquire the ready use of these languages for conversation, business, or discourse, by embracing the advantages offered him in this department.

In addition to this practical study, a considerable portion of time is given to the direct study of Literature, and of selected works of the greatest authors.

GERMAN.

I. **Grammar.** (Syntax in Joynes-Meissner). Wackernagel's Reader I. The German Bible. Conversation (Lambeck). Declamations and exercises in writing. Three hours, throughout the year. Required of all Freshmen.

II. **Wackernagel's Reader II.** Classic Texts (Gerstaecker, Storm, Heyse, Schiller). Translations from English into German. Conversation (Lambeck). Declamations and exercises in writing. Two hours, throughout the year. Required of all Sophomores.

III. **Classic Texts** (Freytag, Schiller, Goethe). Translations from English into German. Conversation (Fossler). Compositions. Throughout the year, two hours. Required of such Juniors as intend to study theology; elective for other Classical Juniors.

IV. **Scientific German** (Dippold's Scientific Reader). Translations from English into German (Lange's Composition). Throughout the year, two hours. Required of Scientific Juniors.

V. **History of German Literature** (Koenig or Steger). Classic Texts (Goethe's Hermann and Dorothea, Faust). Conversation (Fossler). Essays. Throughout the year, two hours. Required of such Seniors as intend to study theology; elective for other Classical Seniors.

VI. **History of German Literature.** Scientific German (Dippold's Reader, Du Boys Reymond's Lectures, Bettex's Genesis, etc). Essays on scientific subjects. Throughout the year, two hours. Required of Scientific Seniors.

FRENCH.

I. **Elementary Course** in Grammar and Reader (Fraser and Squair). Throughout the year, one hour. Required of all Freshmen.

II. **Advanced Course** in Grammar and Reader, together with easy annotated texts. Throughout the year, one hour. Required of all Sophomores.

III. **Classical Texts** (Daudet, Dumas, Erckmann-Chartrian, Halevy, Merimee). Throughout the year, two hours. Required of Scientific Juniors; elective for Classical Juniors.

IV. **Standard Texts** with constant practice in conversation and composition. Historical and philosophical prose. Classic poetry. Throughout the year, two hours. Required of Scientific Seniors; elective for Classical Seniors.

SPANISH.

I. **Elementary Course.** Giese's Spanish Grammar and Reader. Throughout the year, one hour. Elective for all Juniors.

II. **Advanced Course.** Grammar continued. Translations from easy standard texts. Throughout the year, one hour. Elective for all Seniors.

HISTORY.

MR. JACOBS AND DR. OCHSENFORD.

The purpose of the courses offered in this department is to familiarize the student with the forces that have made the nations of the modern world. The method of instruction will be lectures, supplemented by text-books and side-reading.

I. **Introduction to the Study of History.** Lectures on the basis of Langlois and Seigubos' Introduction to the Study of History. One hour. Required of Freshmen. The purpose of this course is to introduce the student to the purposes, the means and the methods of historical study, before entering upon the detailed study of any special period.

II. **Modern European History,** from the Reformation to the present. Recitations on Robinson's History of Western Europe, Part II. One hour, Christmas to Easter. Required of Freshmen. This course is designed merely to acquaint the student with the chief elementary facts in the History of Modern Europe, and no attempt will be made at exhaustive study of any period or movement.

III. **The Roman Empire and the Barbarian Invasions (375-496.)** Lectures and side-reading. One hour, Easter to Commencement. Required of Freshmen. This course is an introduction to the study of the Middle Ages, and aims to provide the student with some knowledge of the background of Mediaeval History, and its chief component elements—the Roman Empire, the German peoples, and the Christian Church.

IV. **History of the Middle Ages (496-1250.)** Lectures and prescribed reading. Two hours. Required of Sophomores. This course will begin where III leaves off. Beginning with the Rise of the Frankish Kingdom, it will carry the student through the history of that Kingdom, and its relations to the Papacy, the history of the Empire of Charles the Great, and the Holy Roman Empire, down to the victory of the Church in its conflicts with the State, and the Fall of the Hohenstaufen. Oman's Dark Ages, and Emerton's Mediaeval Europe are required as text-books, but the student will be referred, whenever possible, to the sources of the history, and to standard secondary works. Special attention will be given in this course, and course V, to Historical Geography.

V. **The Close of the Middle Ages and the Beginnings of Modern History (1250-1555).** Lectures and prescribed reading. Two hours. Required of Juniors. The method of course IV will be followed in

this course. Lodge's Close of the Middle Ages and Johnson's Sixteenth Century will be used as text-books, and the student will follow the development of the nations of modern Europe from the Crusades to the close of the Reformation. Special attention will be paid to the movements, intellectual, social, economic and political, which combined with the religious awakening to produce the revolt against the Roman Church in the Sixteenth Century.

VI. **The Beginnings of the German Reformation.** Lectures and study of sources. One hour. Elective for such Seniors as may be invited to take the course. The purpose of this course is to acquaint the student with some of the more important aspects of the German Reformation by personal contact with the documents of the period. Seminar work will be supplemented by occasional lectures. As it is essential that the number of students taking this course shall be small, it is proposed to admit only those students who have already shown especial interest in the study of history.

VII. **Engiish History.** This course embraces a general survey of the history of England from the earliest period of the history of Britain to the present. Special attention is given to the development of English Constitutional Government as bearing on the fundamental principles of American institutions, followed by a brief critical study of the science of government on the basis of English and American principles. Junior required. One hour a week throughout the year. Texts: Larned's "History of England," "The Federalist" (Ford). Professor Ochsenford.

VIII. **History of Greece.** See Greek, Course IX.

IX. **History of Rome.** See Latin, Course VIII.

POLITICAL AND SOCIAL SCIENCE.

PROFESSOR OCHSENFORD.

Instruction in this department begins with the study of the principles of American Government.

I. **The Constitutional History of the United States** is studied, beginning at the Colonial Charter and continued down to the last amendment of the National Constitution, together with the principles of State Government. The political history of the Nation is reviewed and reference given to such works as are accessible for further information, notably Bryce's monumental work, "The American Commonwealth." Debates are planned on questions involving original research or collocation of scattered authorities. While questions still forming in part the issues of political parties are, of necessity, touched

upon, care is taken to teach them impartially and as far as possible free from any spirit or intention of partisan propagandism. Senior required. Two hours a week during the first term. Text: "American Government" (Hinsdale).

II. **Economics.** The course on the principles and structure of the government of the United States is followed by a thorough study of the principles of Economics, with special reference to our national situation and the far-reaching problems of Social Science. Special attention is given to the economic problems of production and consumption, money and banking, capital and labor, and the social problems that grow out of these important subjects. Senior required. Two hours a week during the second and third terms. Text: "Introduction to the Study of Economics" (Bullock); collateral reading, "The Principles of Economics" (Fetter), and "Money and Credit" (Aldrich).

MATHEMATICS.

PROFESSOR BAUMAN.

This department aims at the following results:

1. To train the mind to reason clearly and logically.
2. To teach the student to be exact, quick of comprehension, and systematic in presentation.
3. To impart facility in applying mathematical principles to practical problems.
4. To lay the foundation for future special work in the various branches of the subject.

I. **Higher Algebra.** Radicals, imaginary quantities, quadratic equations, proportion, progressions, binomial theorem, logarithms, permutations and combinations, series, theory of equations, Horn's theorem. Two hours a week for the whole of the Freshman year. Wentworth's Higher Algebra.

II. **Solid Geometry.** Lines and planes in space, polyhedral angles, prisms, pyramids, similar polyhedrons, cylinders, cones, prismatoid formula, numerous practical problems. One hour a week for the Freshmen during fall and winter terms. Wentworth's Revised Solid Geometry.

III. **Plane Trigonometry.** Trigonometrical functions, solutions of right triangles, practical applications. One hour a week for Freshmen during the spring term. Wentworth's Plane Trigonometry.

IV. **Spherical Geometry.** Sections of spheres, tangents to spheres, spherical triangles, measurement of spherical surfaces and volumes, practical applications. (See under VII.)

V. **Trigonometry.** Goniometry, solutions of plane oblique triangles, numerous practical applications in the measurement of lights and distances, right and oblique spherical triangles, applications to astronomical problems. (See under VII.)

VI. **Surveying.** Land surveying, triangulation, leveling, railroad surveying, many practical problems and some illustrative field work. (See under VII.)

VII. **Navigation.** Plane sailing, parallel and middle latitude sailing, traverse sailing; some nautical astronomy. The last four courses are taken in succession twice a week during the Sophomore year. Wentworth's Trigonometry, Surveying and Navigation.

VIII. **Plane Analytical Geometry.** This is a short course including loci and their equations, the straight line, circle, parabola, ellipse, hyperbola, and the higher plane curves. One hour a week. Required of all Scientific students, and of all other members of the Sophomore Class who elect the two hours of mathematics in the Junior year. Wentworth's Analytical Geometry.

IX. **Plane and Solid Analytical Geometry.** This is a more extended course than the preceding, consisting of a rapid review of course VIII, and covering the subject completely as given in Wentworth's text-book. One hour a week for Junior Scientific students.

X. **Calculus.** Differentiation of algebraic and transcendental functions, successive differentiation, Maclaurin's theorem, Taylor's theorem, maxima and minima, tangents and normals to curves, singular points, evolutes and involutes, integration of monomials, binomials, rational fractions and infinite series. Two hours a week for all Scientific Juniors, and elective for all who have taken course VIII in the Sophomore year. Loomis' Elements of Calculus.

XI. **General Astronomy.** This course includes a thorough study of the facts and theories of astronomy together with mathematical demonstrations. The study is illustrated by field work with a good portable four-inch telescope. One hour a week during Senior year. Young's General Astronomy. Required.

METEOROLOGY.

PROFESSOR BAUMAN.

I. **Elementary Meteorology.** This course embraces the elements of the science as given in Davis' "Elementary Meteorology," and is given one hour a week during the Senior year. It is elective.

DEPARTMENT OF NATURAL AND APPLIED SCIENCE.

PHYSICS AND CHEMISTRY.

PROFESSOR REESE.

The course in Physics and Chemistry is intended to be intensive rather than extensive. The endeavor is made to teach *thoroughly* and impart a clear-cut knowledge of the *fundamentals* of the above-named sciences. The attention of the student is also directed to their practical applications.

The primary object of the course in physics and chemistry is to furnish the classical student a basis for the explanation of the phenomena presented to him in his daily life. The elective work will prepare the student for advanced work after graduation.

In the laboratories the student receives the *personal* attention of the professor during the laboratory period. The laboratories are open, however, from eight a. m. to five p. m. every day, so that work may be done any part of the day, provided it will not interfere with other classes.

Stress is laid on the keeping of a notebook both on the lecture and laboratory work. The notebooks are carefully corrected and returned to the student with suggestions and references to the work in hand. If the laboratory work be poorly done, it will be repeated until good results are obtained. But if after earnest effort the pupil cannot find the error the professor will go over with him that part of the work in which the error occurs.

The Physical Department has a good equipment. A stereopticon with vertical attachment, optical bench and accessories for same, together with 700 slides illustrative of physics and chemistry, especially the industrial side, is at the disposal of the department.

During the year steam baths, Fletcher gas furnace, electrolytic apparatus and hot plates have been installed in the

chemical laboratory. A reflection goniometer by Fuss, a set of 80 crystalline models in wood by Carl Krantz, of Berlin, set of minerals illustrating complete physical characteristics, Jolly's balance, and Sartorius specific gravity balance have been added to the equipment for mineralogy.

PHYSICS.

I. **General Physics.** Lectures and recitations. The endeavor is made to present the subject in such a way that its different branches may be correlated in one science of energy. The lectures are illustrated and all the experiments planned to keep the above object in view. Junior year. Required of all students. One hour.

II. **Laboratory Work in General Physics.** The experiments are for the most part quantitative in character and give practice in mechanics, heat, light, electricity and sound. The laboratory work will be prefaced by several lectures on methods, determination and use of data, graphic methods, interpretation of results, etc. Junior year. Required of all. One hour.

CHEMISTRY.

PROFESSOR REESE.

I. **General Course.** Lectures, recitations and laboratory work. The work of the first term is devoted to the laws and theories on which the science is built. The remainder of the year is devoted to the study of the metals, their occurrence, preparation and industrial value. The separation of the more common metals forms a basis of the laboratory work. Sophomore year. Required of all students. Two hours. Text-book: Descriptive Chemistry (Newell).

II. **Qualitative Analysis.** The endeavor is made to have the work so done that the student will be enabled to analyze any material given him. He will be not only taught the best methods of separation, but the use of goniometer, spectroscope and polariscope as well. First term; Junior year. Required of Scientifics; elective for others. Two hours.

III. **Quantative Analysis.** Lectures on methods involved and laboratory work. The student will calibrate, in part, the flacks, burrettes, etc., to be used during the course. The amount of ground covered will depend on the student's ability and the time he can devote to the subject. Second and Third terms, Junior year. Required of Scientifics; elective for others. Text-book: Quantitative Analysis (Talbot).

IV. **The Analysis of Cement, Milk and Urine.** The object is to make the course as practical as possible. Senior year. Required of Scientifics; elective for others; two hours.

V. **Organic Chemistry.** Lectures, recitations and laboratory work. The lecture and laboratory courses combined give a thorough knowledge of the elementary compounds of carbon. Senior year. Required of Scientifics; elective for others. Two hours. Text-book: Organic Chemistry (Remsen).

GEOLOGY.

PROFESSOR REESE.

As the time is limited, hand specimens from the museum will be used to illustrate the more common rock formations, instead of field work. Structural, dynamic and historical geology will follow. Most of the lectures are illustrated with lantern slides and hand specimens. Senior year. Required of Scientifics; elective for others; one hour.

Mineralogy. The course in Mineralogy will begin with a study of crystallography, to be followed by the determination of twenty-five minerals by finding specific gravity, blow-pipe test, etc. Required of Scientifics; elective for others. Junior year, 3d term, 1 hour. Text-book: Mineralogy (Moses and Parsons).

ACKNOWLEDGMENTS.

The Department of Natural and Applied Science desires to make the following acknowledgments:

Collection of over one hundred specimens of minerals, fossils, and relics in way of idols, etc., from Mrs. Hodge, Catasauqua.

Especially fine specimens of lead and zinc ores, together with several fossils, by Rev. Gebhart, through Rev. G. K. Rubrecht ('01), Wisconsin.

Twenty-two specimens of fossils, Dr. E. D. Shimer ('74), Jamaica, New York.

Collection of fifty mineral specimens, principally of gold and silver ores and soils from the Western States, by Dr. Selden J. Coffin, Lafayette College.

Collection of minerals from the Garden of the Gods, Colorado, from Mrs. Wm. Windt, through Miss Emma Kahler, Buffalo, N. Y.

Specimens of different colored glass, by Decorative Glass Co., Philadelphia, Mrs. F. D. Sweeny, Prop.

Specimens of copper ore and nugget of gold, from Rev. Bernard Repass ('98).

Fossil fern, from Rev. W. M. Rehrig, Ph.D. ('79), Mauch Chunk.

Collection of mineral specimens, from Prof. Robert C. Horn (1900).

Crinoid and magnetite, by Rev. J. A. W. Haas.

Specimen of pyrite, limonite (especially fine crystals), quartz, volcanic dyke and shale, from Mr. Ulrich ('07).

Three lantern slides, from Mr. Michler ('07).

Cocoa pod with beans, from Mr. Rudh ('08).

Specimens of gold from Lehigh county, from Mr. Huff ('09).

Canada white owl, from Mr. Stine, Catasauqua.

Geological maps of New York State, by Mr. Melius.

A specimen of chalcocite weighing 500 pounds, from the Evergreen Mining Co., Gilpin county, Colorado (J. L. Workman, Agent, Allentown, Pa.,), through Mr. Peter W. Leisenring ('04).

Majolica, earthen ware, alloys, etc., by A Friend.

The endeavor is being made to acquire a first-class collection of illustrative material. All alumni and friends of the college are requested to send mineral and rock specimens, fossils and series illustrating industrial processes. The expressage will be paid by College. Address such material to Department of Natural and Applied Science, Muhlenberg College, Allentown, Pa.

DEPARTMENT OF BIOLOGY.

PROFESSORS LEAR AND REESE.

The Biological Courses are elective for all students in the Classical and Scientific Courses and for all Special Course students. The collateral sciences which biology comprehends are taken up in sequential order and the aim of the courses is the aim of all undergraduate work, the rounding-out of an education and collegiate culture. In addition some of the courses are made preparatory to medicine and teaching.

Much of the work of these courses consists of laboratory work. The inductive method is pursued; the student makes his own observations, draws his own conclusions and is required to keep a record of his work in the form of notes and

drawings, these being supplemented by lectures, demonstrations and recitations.

The fundamental laws governing the life processes in the simplest forms of plant and animal life receive the first attention; this is followed by their application to forms of increasing complexity and the continuity of the processes is emphasized till man is studied in his physiological, psychological and sociological relations. Concrete facts having been observed, abstract deductions are made leading to the philosophy of biology. Such preliminary methods introduce the student to the inductive methods of philosophy which hold sway in the world of thought.

As accessories for this work the laboratory is equipped with compound microscopes, an oil immersion lense, materials and reagents necessary for histological purposes, an incubator, hot air and steam sterilizers, microtomes, water baths and other essentials. In order that material may always be at hand, fresh water forms are collected and kept in aquaria jars and marine forms are purchased from the marine biological laboratories and preserved for future use.

Much alcoholic material is in stock both vertebrate and invertebrate, as well as skeletons representing various types of the animal kingdom. Manikins and human skeletons with casts of the ligaments afford further facilities.

The work of this department extends through the four years and no one is permitted to enter later than the first term Senior. It embraces eight courses, viz: General Biology, Comparative Zoology, Botany, Vertebrate Anatomy, Human Anatomy, Physiology, Histology, Bacteriology.

GENERAL BIOLOGY.

This course introduces the student to the Comparative Structure and Functions of Unicellular Plants and Animals, Microscopic Technique and General Laboratory Methods. One-celled Protozoa, amoeba, paramecium and vorticella are

compared with one celled plants, protococcus, the yeast cell, chara and others. Their Protoplasmic Movement, Cell Structure and Cell Division. A brief survey of the Morphology of Bacteria. The Differentiation of tissues and organs in the Fern and Earthworm.

This course is especially recommended to the Classical student as a means to acquire a knowledge of the fundamental life processes and deductions as to their significance.

I. **Introduction to General Biology** (Sedgwick and Wilson). Elementary Biology (Boyer). First term, Freshmen (Scientific) required. First term, three hours recitation and laboratory, Senior and Junior, elective for Classical. Professor Lear.

II. **Comparative Zoology.** Introduction to Classification, General Anatomy and Physiology, Types of Reproduction, Principles of Heredity, Development and Evolution, Physical and Organic Environment. Second term. Required of all Freshmen. Professor Lear.

III. **Invertebrate Zoology.** Representatives of various groups of Invertebrate Animals are studied in the laboratory with reference to their structure, functions, life history, economic value and classification. (Hydra, tubularian and companularian hydroid, sea-anemone, sea-urchin, star fish, sea worm, cray fish, clams and insects.) Third term. Required of all Freshmen. Two hours, recitation, laboratory and lectures. The Outlines of Comparative Zoology (Dodge); Elementary Zoology (Chapin and Rettger). Professor Lear.

BOTANY.

Two elective courses are offered in Botany.

IV. **Systematic Botany** and Comparative Morphology of representative species of the great groups of plants (Algae, Fungi, Mosses, Ferns, Gymnosperms, Angiosperms). First term, Junior, two hours recitation and laboratory, by Professor Lear. Bergen, Coulter's Plant Structures. Elective for all students; required of prospective medical students.

V. **Plant Ecology.** Third term, Junior, one hour. Text, Field Work, by Professor Lear. Elective for all who have had Course IV. Plant Relations (Coulter).

VERTEBRATE ANATOMY.

VI. **Comparative Morphology** of the systems and organs of Vertebrata including the Mammal. The frog, turtle, snake, pigeon, opossum, rabbit and guinea pig are among forms dissected. The mode of Development and Phylogenetic Relationships. Lectures, demonstrations, dissections and recitations. The work is designed for medical students. First term Sophomore and throughout the year. Three hours, recitation and laboratory, by Professor Lear. Comparative Anatomy of Vertebrates (Wiedersheim). Laboratory Guides: Huxley and Martin, Boyer, Davison. Elective.

PHYSIOLOGY.

VII. **Physiology.** Lectures and recitations on the relation of the nervous system to the various parts of the body. Freshman year, first term, required. Text-book, Human Body, Martin. Prof. Reese.

VIII. **Physiology of Nutrition** (Circulation, Respiration, Digestion, Excretion, Metabolism). First and second terms, Senior. Two hours text and laboratory by Professor Lear. Elective for all. (Foster, Collins and Rockwell, Lab. Guides.)

IX. **Experimental Physiology** with direct reference to Voluntary and Reflex Motion, Muscular and Nervous Sensations as supplemental to Physiological Psychology. Course VIII or Course in Psychology required for Course IX. Third term, Senior. Professor Lear. Elective.

HISTOLOGY.

X. **Animal Histology.** The normal tissues of higher animals are studied by means of microscopic sections, hardening, embedding, section cutting and staining. Each student makes a number of preparations of his own and is supplied with others already prepared. These he mounts and retains as his own collection. This course is adapted to the requirements of prospective medical students, but those who elect Course IV may substitute Plant Histology. First term Junior and throughout the year. Two hours, laboratory and recitation, by Prof. Lear. Practical Histology (Stirling, Piersol). Elective for all students.

XI. **Plant Histology** (Chamberlain and Laboratory Guides). Second term, Junior. Elective for all. Professor Lear.

BACTERIOLOGY.

XII. The instruction in **Bacteriology** is imparted by text-book, lectures and practical laboratory methods. Morphology of Bacteria, Methods of Sterilization and Incubation, Culture Media, Staining and Examination of Pathogenic Bacteria. Third term, Senior. Three hours of text and laboratory by Protessor Lear. Principles of Bacteriology (Abbott), Moore's Lab. Guide. Elective for all who have had Course I or Course IV. By special arrangement with the professor in charge advanced work in "Blood Analysis" and "Bacteriological Examination of Water" may be taken.

XIII. **Human Anatomy.** This course covers Osteology, Syndesmology and Myology. Lectures, demonstrations, practical work on the skeleton, actual dissection of the human subject are the methods pursued. Accessories for the work are human skeletons, a manikin, models, a disarticulated scull. A sanitary dissecting room is provided. Elective. Cunningham's Anatomy. Two hours recitation, three-five hours dissection, first and second terms, Senior, by Prof. Lear.

EMBRYOLOGY.

XIV. This course is descriptive of the development of lower forms of animals and mammals, followed by the development of the chick. The hen's egg is incubated, and microscopic preparations of the various stages of embryonic structures are made, which the student studies and draws. Elective. Heisler's Embryology, Manton's Lab. Guide. Two hours in addition to laboratory work, third term Senior, Prof. Lear.

PHYSICAL EDUCATION.

PROF. LEAR AND MR. BACHMAN.

The aim of this department is to guide the normal student to grow symmetrically and to advise the defective who are weak from heredity, poor development or ignorance how to correct these defects.

The tabulations of the present system of medical examinations and physical measurements show the student wherein he exceeds or falls below the average. In addition to the general gymnasium exercises specific directions are given to overcome hereditary or acquired defects. The three-fold

record of each student is tabulated and kept by the standard card system and at varying intervals revised by re-examinations.

Classified gymnastics and apparatus work are taught by the physical director, Mr. Bachman. The well-equipped FonDersmith Gymnasium, with adjoining baths, dressing room and lockers, is provided for this work.

A large field for base ball, foot ball and tennis courts offers the very best facilities for out-door athletics. Lectures on Social Evils and the Relation of their Effects to Heredity are delivered by the professor in charge. Gymnasium work two hours per week, by Mr. Bachman. Required of Sophomores and Freshmen. Elective for Juniors and Seniors.

LITERARY SOCIETIES.

Connected with the institution there are two Literary Socities whose exercises are regarded as a regular part of its curriculum. Every student is required to be a member of one or the other of these, the Euterpean or the Sophronian, and take part regularly in the exercises of the same. Debates, declamations, speeches, essays, and the like, are required in these societies, and familiarity with the application of parliamentary law is obtained. Excellent libraries belonging to these societies are accessible to the members, and from time to time are increased by liberal additions of current and standard literature. The sessions of the societies are held in their respective halls every Wednesday afternoon during term time, and attendance is obligatory upon the members. Neglect of duty in the Literary Society is regarded as a violation of college regulations, and subjects the offender to college discipline.

SPECIAL LECTURES.

A number of special lectures are delivered during the college year by persons eminent for ability in various directions; these are free to all students and alumni of the in-

stitution, and have been largely and profitably attended. The course for this year will be found in its proper place in the catalogue. This feature will be carefully maintained in the future as a source of instruction in specialties, recent topics of interest, and for general information upon subjects not embraced in the ordinary department work.

LIBRARY AND READING ROOM.

DR. BAUMAN, LIBRARIAN.

The library consists of three distinct collections, that of the college proper, and that of the two literary societies connected with the institution. These are all in one room, and, though at present separately catalogued, will eventually be supplied with one dictionary card catalogue. The total number of volumes is about 14,000. The library is open daily.

The reading room is a large, commodious, well lighted room, furnished with tables and other necessary appliances. Here all students have access to secular dailies, religious weeklies, and monthly periodicals sufficient in number to enable them to keep abreast with the current of events in all departments.

The College Library is increased regularly by purchases, and continuously by donations. Friends of the institution are solicited to donate suitable books to the library, as many have already done, or, still better, send a donation of money, in large or small sums, to be expended in purchasing necessary books. All such gifts will be promptly acknowledged by the librarian, Prof. J. A. Bauman, Ph.D., to whom they should be addressed.

Books and papers have been received during the year from the following donors, whose kindness is hereby gratefully acknowledged:

Departments of the United States Government.
Departments of the Pennsylvania State Government.
American Friends' Peace Conference.

The National Association of Wool Manufacturers.
Pennsylvania Forestry Association.
New York State Educational Department.
Schoolmasters' Association.
Lake Mohonk Conference.
Lehigh County Historical Society.
Local Committee of the Pennsylvania-German Society.
Conference for Education of the South.
Superintendent of Immigration of Canada.
Royersford Shoe Company.
Home Market Club.
Pennsylvania Historical Society.
New Zealand Government Tourist Department.
Lutheran Publication Society.
General Council Publication Board.
Friends' Book Store.
Pionierverein von Philadelphia.
Journal of Prison Discipline.
Trustees Reading Public Library.
Berkshire Atheneum.
New York Historical Society.
University of California.
Clemson Agricultural College.
Bucknell University.
University of Pennsylvania.
University of Chicago.
University of North Carolina.
Mrs. H. J. Hornbeck.
Mrs. (Judge) Edwin Albright.
Mrs. (Rev.) J. H. Schmidt.
Hon. Marcus C. L. Kline, Esq.
Prof. Lewis Haupt, A.M., Sc.D., C.E.
Mr. Francis Ferrier.
Mr. William Price.
Miss Elizabeth Webster.
Prof. C. A. Marks.
Mr. A. Carnegie.
Mr. J. J. Hauser.
Miss Emily J. Foust.
Rev. F. N. D. Buchman.
Mr. W. A. Dickson, Allentown Book Store.
Mr. W. H. Burkhardt.

Daniel Yoder, M.D.
Allentown Daily City Item.
Allentown Chronicle and News.
Allentown Morning Call.
Allentown Leader.
South Bethlehem Globe.
The Reading Daily Eagle.
Doylestown Daily Intelligencer.
Lebanon Evening Report.
Northampton Democrat.
Easton Argus.
Perkiomen Ledger.
The Lutheran.
Der Kirchenbote.
The Lutheran Observer.
The Lutheran Standard.
Der Lutherische Herold.
Der Missionsbote.
The Foreign Missionary.
Die Abendschule.

NEW BUILDINGS.

After occupying the buildings situated in the southeastern part of Allentown since 1867, Muhlenberg College has been moved to the western section of the city where it now possesses a site of fifty-five acres of land, on which a commodious modern college-plant has been built.

THE ADMINISTRATION BUILDING.

This building occupies the highest part of the new college grounds, facing south, and is 190 feet long and 65 feet wide, three stories high, with a basement. It is built of a pink granolithic stone, with Indiana lime-stone trimmings, in the English Renaissance style of architecture. The façade shows a central tower, which is flanked with gables on each end, the intervening wall being topped off with dormer windows.

The basement contains a gymnasium with bath and locker-rooms, a students' assembling room, bicycle and coat rooms, dissecting room and Physical Director's room. The first floor contains a reception-room, offices for the President and Treasurer, the latter connecting with a fire-proof vault, chapel, and five recitation-rooms.

The second floor contains the library and reading-rooms, physical and biological laboratories, and four recitation-rooms.

The third floor contains two large literary society halls, and rooms for "The Muhlenberg," Press Club, Glee Club, the Missionary Society, Museums of Geology and Botany, Optics and Water Analysis.

The building is of what is known as "slow-burning construction," with iron staircases, heated by steam and lighted with electricity, supplied from a central plant. Its appointments and furnishings are modern throughout.

THE DORMITORIES.

The general scheme of the dormitories is to place them around a rectangle, adopting a typical Oxford or Cambridge system. They are divided into sections accommodating from twelve to sixteen students each, and are entered from the quadrangle through separate doorways, each section having its own hall and staircase with rooms on either side. All the sections are supplied on each floor with steam heat, electric light, hot and cold water, shower baths, and toilet-rooms.

The main entrance to the dormitories is flanked with towers which contain, on the first floor, an office, a reception-room, janitor's room, and baggage-room.

The front elevation of the principal dormitory is 183 feet long and three stories high. This building is called "Berks Hall," in honor of the Lutherans of Berks County, Pa., who have undertaken to raise $35,000 to pay for its erection. It accommodates seventy-five students.

Mrs. Anna Louisa Rhoads, of Reading, Pa., has contributed $6558.74 for the erection of an additional section along the eastern side of the rectangle as a memorial for her son, John Warren Rhoads.

POWER PLANT.

A completely equipped power-plant furnishes an ample supply of steam heat and electric light for all the buildings on the college grounds. In this building comfortable provision has been made for the chemical laboratory.

PRESIDENT'S RESIDENCE.

The President's residence is a large and finely-appointed three-storied house situated near the corner of Twenty-fourth and Chew Streets.

LUTHER LEAGUE HALL.

The Luther Leagues of the Ministerium of Pennsylvania have undertaken to provide $6000 for an additional section to be erected along the western side of the rectangle, to be known as "Luther League Hall." They have secured about one-half the cost. Additional sections will be needed as the number of students increases, and any one undertaking the erection of such a section will have the privilege of naming it, which name will be inscribed on a suitable tablet.

ALUMNI HALL.

The Alumni of the College have begun a fund which, if it assume sufficient proportions, is to be applied to the erection of a building to be known as "Alumni Hall." The fund so far amounts to over $12,000.

The block plan calls for a number of additional buildings, such as a Chapel, Library, Gymnasium, Science Building, Observatory and Language Building.

The hope is entertained that individuals will provide the means by which these buildings can be erected as memorials to their loved ones or to themselves.

THE ADMINISTRATION OF THE COLLEGE.

GOVERNMENT.

The government is firmly but kindly administered. No unnecessary or arbitrary regulations have been introduced, but good order, obedience, and a general propriety of deportment are strenuously insisted upon, and no one persistently disobedient, or pernicious in his influence, will be retained upon any condition.

As the ultimate aim of all the efforts of the institution is the development of Christian character, and as this can best be called forth by a direct appeal to the student's sense of honor, the so-called honor system will hereafter be followed in the various recitations and examinations, as well as in the general life of the college.

An entrance into the institution is considered an agreement, in good faith, to abide by its rules and regulations, and expulsion necessitated by disobedience or immorality a forfeiture of its advantages. It will, however, be the object of the officers and instructors, by their frequent counsel and friendly relations with the students, to avoid, if possible, the severer forms of discipline.

REGISTRATION.

On the first day of the fall term every new student shall report in person at the office of the Treasurer before 1 p. m. and register his full name, home address, as well as the course he expects to take.

A registration fee of $5.00 shall be required in advance, which sum shall be credited to the student's account, in case of his admission to College.

ELECTIVES.

On or before June 1st of each year, every student shall hand to the Dean a list of the subjects that he elects for the following year, which subjects thus become a part of his regular work. All such elections are subject to the approval of the Faculty.

RULES FOR THE DORMITORIES.

All students, except day-students, shall room in the Dormitories, subject to the following rules:

1. There are two Proctors in the Dormitories, to whom students may refer for advice and information.

2. The students of each section shall elect annually (at a meeting called by the Proctor) one of their number to act as Representative, such choice to be subject to the approval of the Faculty.

3. The Representative of each section is responsible to the Senior Proctor for the maintenance of order in his section, and for the enforcement of all rules passed by the authorities.

4. Each student is responsible for the maintenance of order in his own room.

5. Cheering, noisy singing, and playing upon loud musical instruments will be allowed only by special permission.

6. No gathering of students that disturbs the quiet of the Dormitories will be allowed except by special permission of a Proctor.

7. No student shall play ball except on the grounds assigned for this purpose.

8. It is *required* that students inviting ladies to their rooms, observe the custom of inviting a chaperon also, unless special explanation be made to a Proctor.

9. Any occupant of the Dormitories desiring to escort ladies to his room shall register at the office his own name and the number of ladies under his escort.

10. Ladies without escort, visiting the Dormitories will be conducted to the Reception Room to await the announcement of their visit.

11. After eight o'clock p. m. no visitors are permitted in the grounds or buildings.

12. Any of these Rules may be suspended temporarily, for sufficient cause, by the Senior Proctor.

EXAMINATIONS.

All the classes are examined twice a year, and the results made to count as a proper factor in the class standing.

TERM REPORTS.

Reports of standing in class, conduct, attendance, and the like, are sent to parents or guardians after each examination; and if necessary, special correspondence is had in the intervals.

SCHOLARSHIPS.

Any individual or congregation contributing $1000 to $1500 to the College will receive a permanent scholarship, which secures to the contributor, his assigns, etc., the perpetual right of educating one student in the institution free of expense for tuition and proportionate charges in the Administration Building.

The following is a list of donors having procured such scholarships:

Hon. S. A. Bridges, Allentown, Pa.
James K. Mosser, Allentown, Pa.
Andrew S. Keck, Allentown, Pa.
Thomas Keck, New York, N. Y.
Horatio Trexler, Reading, Pa.
William Saeger, Allentown, Pa.
Alfred G. Saeger, Allentown, Pa.
Charles Burkhalter, New York, N. Y.
Amos W. Potteiger, Reading, Pa.
Mrs. Sarah Miller, Allentown, Pa.
A. Stanley Ulrich, Esq., Lebanon, Pa., and Rev. Aaron Finfrock, Reading, Pa.
A. S. Shimer, Easton, Pa.
John Wagner, Hellertown, Pa.
William A. Arnold, Reading, Pa.
Samuel H. Kutz, Reading, Pa.

Robert H. Sayre, South Bethlehem, Pa.
Henry Stine, Fogelsville, Pa.
Jacob Fegely, Pottstown, Pa.
George H. Reinoehl, Lebanon, Pa.
Edward S. and Sarah Wertz, Reading, Pa.
Charles A. and Annie D. T. FonDersmith, Lancaster, Pa.
John E. Lentz, Allentown, Pa.
Mrs. Caroline Freudenberger, Tamaqua, Pa.

Reuben D. Wenrich, M.D., Wernersville, Pa. This Scholarship has been increased, by the donor, to $1,500.

St. John's Evangelical Lutheran Church of Allentown, Pa.; Trinity, of Reading, Pa. (two owned by the congregation, and one of $1250 endowed by the Sunday-school, in memory of Mrs. Sidley); St. James', of Reading, Pa. (two); Emanuel's, of Pottstown, Pa.

St. John's English Reformed Church, of Allentown, owns the *Frank Erdman Cooper scholarship,* given to it by C. W. Cooper, Esq., in memory of his son.

The *Luther P. Keller, Jr., Memorial scholarship,* of St. John's Ev. Lutheran Church, Philadelphia, Pa., was endowed by Luther P. Keller in memory of his son.

The *Henry S. Neff, M.D., Memorial scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by George Rugan Neff in memory of his son.

The *Frank Rugan Neff Memorial scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by Julietta S. Neff in memory of her son.

The *Henry Melchior Muhlenberg scholarship* was endowed by Mrs. Mary A. Rogers and Mrs. E. M. Bailey and her son James Muhlenberg Bailey, of New York, in honor of their ancestor, the Patriarch of the Lutheran Church in this country.

The *Henry and Anna Mary Romig Memorial scholarship* was endowed by Mrs. Isaac Fegely, of Pottstown, Pa., in honor of her parents.

The *Allentown High School scholarship* is vested in the Public School Board of Control, of Allentown, and is open annually to competition on the part of graduates of the High School.

The *Clemmie L. Ulrich scholarship* was left by bequest for the use of the Ev. Lutheran Ministerium of Pennsylvania.

Charles Roeller Himmelwright Memorial scholarship of St. John's Evangelical Lutheran Church, of Quakertown, Pa., endowed by Mrs. Susan Himmelwright in memory of her husband.

It is hoped that others will follow these examples, and take individual, memorial, or congregational scholarships, as thereby the owner of such a scholarship, apart from educating his own family, will aid worthy and talented but poor young men in securing an education that may fit them for eminent usefulness, and the congregations may have in perpetual training those of their sons that seek the work of the Gospel ministry.

HIGH SCHOOL SCHOLARSHIPS.

The Board of Trustees has also granted scholarships representing an annual credit of $50 for tuition, to the male graduates, prepared to enter either the Classical or the Scientific course in College, from the following High Schools;

The Reading High School.

The Lebanon High School.

PRIZES.

During the year the following prizes have been announced, competition for which is subject to the rules of the Faculty, and the assigning of which is in the hands of committees appointed for this purpose. The decision will be announced on Commencement day. Friends of the institution are urged to increase the number of these prizes, especially for the lower classes.

The Amos Ettinger Honor Medal, to be assigned to that member of the Senior Class having attained the highest average grade during the year, in all his studies. Presented by Professor George T. Ettinger, Ph.D. ('80).

The President's Senior Prize. A prize of Ten Dollars to be awarded to that member of the Senior Class writing the best original essay in the department of Philosophy. Subject for 1907: "The Ideals in the Republic of Plato." Presented by President J. A. W. Haas, D.D.

The Clemmie L. Ulrich Oratorical Prize. Twenty-five Dollars to that member of the Junior Class making the best speech in English, as to manner and matter, at the Junior Contest. Presented by bequest of Clemmie L. Ulrich, Annville, Pa.

The President's Junior Prize. A prize of Ten Dollars to be awarded to that member of the Junior Class presenting the best original essay in the department of English. Subject for 1907: "The Place of Longfellow, as a Poet, in American Literature." Presented by President J. A. W. Haas, D.D.

The Sophomore Biological Prize. Ten Dollars for the best examination on the laboratory work and text in Vertebrate Anatomy. Presented by Professor John Lear, M.D.

The Reuben D. Wenrich, M.D., Prize. A prize of Ten Dollars to be awarded to that member of the Sophomore Class having attained the highest average grade in all his studies.

The Freshman Biological Prize. Ten Dollars to that student who obtains the best average in Zoology. The notation will be based on recitation average, best examination in systematic Zoology, and best collection of insects (including Arachnida and Myriapoda) properly labelled and classified. The collection to remain as the property of the museum. Competition open only to students in the general course. Presented by a friend of the college.

The Freshman Prize in English. A prize of Ten Dollars to be awarded to that member of the Freshman Class presenting the best original essay on some subject based on the preparatory work in English. The object of this prize is to stimulate thorough preparation in English. Subject for 1907: "A Critique of Milton's Lycidas." Presented by Mr. Luther FonDersmith, of Lancaster, Pa.

DEGREES.

THE MASTER'S DEGREE.

Beginning with the year 1906, graduates of the college, of three years' standing, of good moral character, who apply for the Master's degree in Arts or Science, must submit with their written application for the degree, an acceptable typewritten or printed thesis. The said application and thesis must be sent to the Dean not later than May 1st of the year in which the degree is to be conferred.

DEGREES CONFERRED AT COMMENCEMENT.

At the annual Commencement, held June 20th, 1906, the following Degrees were conferred:

HONORARY DEGREES.

Doctor of Divinity.

Rev. Gustav Nelsenius, Brooklyn, N. Y.
Rev. Peter D. Mattson, President of Gustavus Adolphus College, St. Peter, Minn.
Rev. F. P. Mayser, Lancaster, Pa.

Master of Arts.

Prof. Henry T. Stein, Keystone State Normal School, Kutztown, Pa.

DEGREES IN COURSE.

Master of Arts.

Preston H. Breinig, '96.....Egypt, Pa.
Harry E. Barndt, '03.....Sellersville, Pa.
Rev. Oliver O. Bittner, '03.....Fredericksburg, Pa.
Rev. Frank Croman, '03.....Providence, R. I
Rev. Franklin T. Esterly, '03.....Philadelphia, Pa.

Rev. Erwin R. Jaxheimer, '03.....Freemansburg, Pa.
Edwin G. Leefeldt, '03.....Staatsburg, N. Y.
Rev. August W. Rohrig, '03.....New Britain, Conn.
Rev. Wm. H. B. Roth, '03.....Turbotville, Pa.
Prof. Irvin M. Shalter, '03.....Allentown, Pa.
Rev. Arthur L. Smith, '03.....Ricketts, Pa.
Rev. C. Daniel Trexler, '03.....Brooklyn, N. Y.
Rev. Alvin E. Youse, '03.....Winnipeg, Man.

Bachelor of Arts.

Thomas H. Bachman.....Neffs, Pa.
Preston A. Barba.....Allentown, Pa.
Warren E. Bittner.....Allentown, Pa.
John D. M. Brown.....Lebanon, Pa.
Willie S. Dry.....New Jerusalem, Pa.
Earle T. Henninger.....Eckert, Pa.
Claude O. Hoffman.....Allentown, Pa.
August C. Karkau.....Lansing, Mich.
Howard H. Krauss.....East Greenville, Pa.
G. Joseph Mueller.....Lancaster, Pa.
Luther A. Pflueger.....Ringtown, Pa.
Frederick A. Reiter.....Richland Centre, Pa.
J. Luther Reiter.....Allentown, Pa.
Benjamin L. Romberger.....Elizabethville, Pa.
Milton H. N. Ritter.....Macungie, Pa.
Charles E. Rudy.....Lancaster, Pa.
John W. B. Schantz.....Shimerville, Pa.
Leidy B. Sterner.....Richlandtown, Pa.

Bachelor of Science.

Harry J. Butz.....Breinigsville, Pa.
Bryan W. Laros.....Allentown, Pa.
John S. Schneller.....Catasauqua, Pa.

EXPENSES FOR THE COLLEGIATE YEAR.

IN THE ADMINISTRATION BUILDING.

The expenses in the Administration Building will be $75.00, which includes tuition, the use of the College Library, Reading Room furnished and supplied with current literature by the College, Gymnasium, light, heat, and ser-

vice. A deposit of $1.00 will be required for a locker key in the gymnasium, which will be refunded when the key is returned.

An athletic fee of $5.00 will be collected annually from each student for the Athletic Association.

Tuition is represented by $50.00, which amount will be credited to those holding scholarships. Those holding scholarships of a larger amount will be credited with the full proceeds of such scholarships on account of expenses in the Administration Building.

The charges for material and the use of instruments in the B. S. course are, for the Freshmen, $10.00; for the Sophomores, $15.00; and for the Juniors and the Seniors, $25.00. All Chemistry students, in both courses, are required to pay a fee of $5.00 and to deposit with the Treasurer $5.00 to cover possible breakages.

For special courses, embracing from one to three subjects of study, the charges will be $25.00 a year.

The scholastic year is divided into three terms for the payment of these charges, which will be proportioned to the respective length of the terms, namely, September to Christmas, Christmas to Easter, and Easter to Commencement. *The College charges of each term must be paid in advance.*

The members of the Senior Class, at the beginning of the Third Term, pay to the Treasurer an extra fee of five dollars, which will be refunded in case of failure to graduate.

IN THE DORMITORIES.

The room-rent in the Dormitories includes electric light, steam heat, hot and cold water, bath, and service. The rental is always for the whole room or suite, and for the time extending from Monday before the opening of College in September until Saturday after Commencement in June. In case of a double room or double suite, the rent per tenant is one-half the given rent. Students staying on the premises during the day and returning to their homes

at night will be assigned either to a double room or to a double suite after all the resident students have been located, and charged one-fourth the rent.

All students must furnish their own rooms, and only iron bedsteads with all iron springs approved by the College are allowed.

The rooms are divided into four classes:

1. Single rooms for one tenant only, where the rent is $55.00.

2. Single suites, a study, and a bedroom, for one tenant only, where the rent is $87.50 on the first and second floors and $67.50 on the third floor.

3. Double rooms, one large room for two tenants, where the rent is $90.00 on the first and second floors, and $85.00 on the third floor.

4. Double suites, a study, and two bedrooms, where the rent is $140.00 on the first and second floors, and $130.00 on the third floor.

Rules governing the allotment and rental of rooms as well as the requisite application blanks and forms of leases can be secured from the Treasurer of the College.

ENDOWMENTS, BEQUESTS AND DEVISES.

Higher education, in our country, rests largely upon a charitable basis. No institution offering a liberal education can be maintained by the moderate charges made for tuition. The increasing breadth given to such higher education, and the more exalted standard of architectural effect employed in collegiate buildings, increase enormously the resulting financial strain. No such institution can therefore keep abreast of this ever rising standard of the times without the steady increase of its endowment funds. Muhlenberg College has, in the past, been the recipient of a number of very generous gifts and endowments. But, for the reasons just assigned, it must most earnestly urge its friends and graduates to aid it in furthering its resources, endowing new professorial chairs, founding scholarships, providing funds for the aid of worthy but indigent students, and the other

constantly pressing needs of the institution. Attention is also called to the eminent propriety of making bequests to advance the prosperity and widen the usefulness of our institution. As it is important that testamentary papers should be carefully drawn and regularly executed, and our corporation name be written accurately, we append the following forms, respectively for personal property and real estate, indicating whether the bequest is for endowment or the general purposes of the College:

I give and bequeath to "Muhlenberg College," in Allentown, Pennsylvania, and its successors and assigns, forever, the sum of Dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the uses and purposes of said College.

I give and bequeath a certain lot, situated (here described) to "Muhlenberg College," in Allentown, Pennsylvania, and to its successors and assigns, forever, for the uses and purposes of said College, according to the provisions of its charter.

THE ALUMNI ASSOCIATION OF MUHLENBERG COLLEGE.

PRESIDENT: Francis G. Lewis, Esq., Allentown, Pa.

VICE-PRESIDENTS: Rev. Edwin F. Keever, Catasauqua, Pa., and Rev. J. J. Schindel, Allentown, Pa.

CORRESPONDING SECRETARY AND TREASURER: Professor George T. Ettinger, Ph.D., Allentown, Pa.

RECORDING SECRETARY: Professor J. A. Bauman, Ph.D., Allentown, Pa.

BOARD OF MANAGERS: Professor George T. Ettinger, Ph.D., Dr. Howard S. Seip, and Reuben J. Butz, Esq.

The object of this Association is to cultvate friendly relations among the alumni and to promote the interests of Muhlenberg College.

Any graduate of Muhlenberg College may become a member by paying a membership fee of $1, and 50 cents annually thereafter.

It is urgently requested that as many of the alumni as possible join the Association, and thus assist in advancing the objects for which it has been established.

The annual meeting is held on Thursday afternoon of Commencement week.

Further information may be had from the Corresponding Secretary.

ALLENTOWN PREPARATORY SCHOOL.

Formerly Academic Department of Muhlenberg College.

PREPARATORY SCHOOL BOARD.

(ALSO MEMBERS OF THE CENTRAL EXECUTIVE COMMITTEE.)

REV. J. C. RAUSCH, Allentown, Pa.
REV. W. D. C. KEITER, Bethlehem, Pa.
D. D. FRITCH, M.D., Macungie, Pa.

FACULTY.

AMBROSE A. KUNKLE, A.M.,
Principal and Instructor in Languages and English.

IRVIN M. SHALTER, A.M.,
Instructor in Mathematics, German, and Science.

REV. SVEN O. SIGMOND, A.B.,
Instructor in Languages and History.

FREDERICK B. GERNERD, A.M., LL.B.,
Instructor in Civil Government.

EDGAR A. SNYDER, B.E.,
Instructor of Grammar Department.

CHARLES W. SMITH,
Physical Director.

WILLIAM A. HAUSMAN, M.S., M.D.,
Visiting Physician.

ORGANIZATION.

The management of the Allentown Preparatory School is in the hands of the Principal, the Faculty and the Preparatory Board.

PURPOSE.

1. To prepare students for entrance into the higher institutions of learning.

2. To offer an excellent course for those who intend to enter business upon graduation.

3. To teach the elements of Christian manliness.

NOTE.—Young men will be prepared for the institution of their choice, classical or technical.

LOCATION.

The large and commodious buildings formerly used by Muhlenberg College are now occupied by the Allentown Preparatory School. Situated at Fourth and Walnut Streets, it is easily reached from the railroad stations. The trolley cars pass within a square from our grounds.

GYMNASIUM AND ATHLETICS.

All students of this school are members of the local branch of the Y. M. C. A. This entitles them to the use of one of the best equipped gymnasiums in Pennsylvania. It contains a swimming pool, excellent running track, and all other apparatus needful for the physical development of the young man. Regular drills, at which attendance is compulsory, are features of our gymnasium work. Foot ball, baseball and basket ball are encouraged but not allowed to interfere with the work of the school in general or hinder the progress of the individual student.

SPECIAL FEATURES.

1. Thoroughness: a poor preparation renders a college course a torment rather than a pleasure. We want our young graduates to thank us for having made them work.

2. Careful supervision: each student is the special object of care and attention on the part of the Principal and assistants. They will be under their personal supervision in the class-room, in their individual rooms, and in the dining-room.

REGULATIONS.

The school hours are from eight o'clock a. m., to one o'clock p. m. Several periods later in the afternoon are reserved for delinquents.

The students' rooms are furnished with bed, mattress, pillow, table, chair and mirror. Students furnish their own bed-clothing and rugs or carpets.

EXPENSES.

The charges are fair and reasonable and we invite comparison with those of other institutions. The tuition has been fixed at $50.00. Other charges are dependent upon location of rooms, etc., and will be cheerfully given upon application.

The scholastic year is divided into three terms for the payment of these charges. They will be divided accordingly and payment will be due in advance.

GRAMMAR DEPARTMENT.

This department accommodates students from twelve to fourteen years of age. They have their own recitation room and instructors. The department is not large. This fact insures careful attention to the wants of each pupil.

"THE PURPLE AND WHITE."

In January, 1905, the pupils began the publication of a monthly school paper. It reflects the literary work of the School and we shall be glad to forward a copy upon application.

OUR OWN CATALOGUE.

We will shortly publish our third annual catalogue devoted entirely to the interests of the Allentown Preparatory School. Copies of the same will be forwarded upon request. For further and more definite information write to

A. A. KUNKLE, A.M.,
Principal.

STUDENTS.

Enrollment from February 1, 1906, to February 1, 1907, Including Summer Session, July and August, 1906.

Charles Daniel Addams ..... Reading, Pa.
Arthur Hayward Arbogast ..... Allentown, Pa.
Edwin Charles Bauer ..... Macungie, Pa.
Gustave Harry Bechtold ..... Philadelphia, Pa.
4Nevin Jeremiah Bhaer ..... Shoemakersville, Pa.
William Harrison Bieber ..... Shamrock, Pa.
Milton Z. Bissey ..... Northampton Heights, Pa
Herbert Spencer Boerner ..... Cedarburg, Wis.
Bert James Bolles ..... Lansford, Pa.
Warren Franklin Bortz ..... Allentown, Pa.
William Henry Boyer ..... Allentown, Pa.
John Shaffer Brobst ..... Macungie, Pa.
Robert George Craig ..... Allentown, Pa.
Frank Raymond Diehl ..... Lehighton, Pa.
Clarence Engers ..... Barberton, Ohio.
Daniel Gearhardt Fegley ..... Allentown, Pa.
Robert Percival Fenstermacher ..... Allentown, Pa.
Robert Brobst Filbert ..... Womelsdorf, Pa.
Herbert Benneville Frederick ..... Allentown, Pa.
Stanley Charles Frederick ..... Allentown, Pa.
5Roy Alfred Freeman ..... Catasauqua, Pa.
Walter Morris Fritch ..... Bethlehem, Pa.
Marvin LeGrande Fritchman ..... Freemansburg, Pa.
Harry Webster Dieter Goldsmith ..... Catasauqua, Pa.
Joseph Kalbach Goundie ..... Allentown, Pa.
Nevin Homer Guth ..... Allentown, Pa.
Ralph Edgar Haas ..... Allentown, Pa.
Edward Conrad Hardy ..... Lancaster, Pa.
1John Hassler ..... Womelsdorf, Pa.
Alfred Stevens Hatfield ..... Philadelphia, Pa.
Charles Grover Haupt ..... Siegfried, Pa.
5Harry Leightner Heckel ..... Lancaster, Pa.
Clark Wesley Heller ..... Wapwallopen, Pa.
Hoyt Eugene Heller ..... Wapwallopen, Pa.
Harold Gabriel Helwig ..... Allentown, Pa.
Clarence Floyd Hoehle ..... Rittersville, Pa.
Andrew Hreha ..... Peckville, Pa.

JOHN HREHA ..... Peckville, Pa.
1PAUL PHILLIPS HUYETT ..... Wernersville, Pa.
GEORGE JACOBS ..... Hauto, Pa.
MICHAEL JACOBS ..... Hauto, Pa.
PAUL FRANKLIN KERSTETTER ..... Scranton, Pa.
JAMES PERRY KING ..... Kittanning, Pa.
1MARTIN SELER KLECKNER ..... Allentown, Pa.
SAMUEL ADAM KLEPPINGER ..... Allentown, Pa.
HIRAM FRANKLIN KOHLER ..... Allentown, Pa.
ADAM HENRY KRICK ..... Hazleton, Pa.
PAUL MONTIETH KUDER ..... Siegfried, Pa.
FRANCIS ADAM KUNKLE ..... Slatington, Pa.
HOWARD JACOB KURTZ ..... Emaus, Pa.
RAYMOND JAMES THOMAS LARASH ..... Allentown, Pa.
WILLIAM RICHARD LAWFER ..... Allentown, Pa.
LEONARD LEWELLYN LEH ..... Egypt, Pa.
SAMUEL FRANTZ LEHMAN ..... Greensburg, Pa.
EDMUND BRUCE LEHR ..... Allentown, Pa.
ROWLAND WILLIS LEIBY ..... Allentown, Pa.
WARREN CALVIN LEINBACH ..... Reading, Pa.
HOWARD NAPOLEON LENTZ ..... Treichler's, Pa.
HOWARD RAYMOND LONG ..... Allentown, Pa.
SAMUEL LEWIS ..... Allentown, Pa.
WILLIAM EVAN LEWIS ..... Allentown, Pa.
1CURTIS ALBERT MILLER ..... Gratz, Pa.
HARVEY RAY MILLER ..... Allentown, Pa.
1OBER MORNING ..... Elizabethtown, Pa.
MILES HOWARD NEWHARD ..... Fullerton, Pa.
RAYMOND CHARLES NICKUM ..... Allentown, Pa.
4DANIEL MILLER OBER ..... Elizabethtown, Pa.
3ROLLO OLIVER PETERS ..... Slatington, Pa.
THOMAS HEISTER POWICK ..... Allentown, Pa.
1PAUL PUTRA ..... Lansford, Pa.
1LEONARD FRANK RAUP ..... Catawissa, Pa.
1JOHN ALEXANDER REID ..... Hokendauqua, Pa.
RAYMOND JOHN REMS ..... Allentown, Pa.
MARTIN LUTHER RITTER ..... Allentown, Pa.
SAMUEL PETER CALVIN RUCH ..... Coplay, Pa.
1HOWARD ELWOOD RUHE ..... Allentown, Pa.
PAUL JACOBY RUHE ..... Allentown, Pa.
2ROBERT KLINE SCHANTZ ..... Allentown, Pa.
1ARTHUR HARRISON SCHMOYER ..... Alburtis, Pa.

James Blaine Schock	Mt. Zion, Pa.
Alfred Daniel Schreiber	Coplay, Pa.
*J. Calvin Schuger	Alburtis, Pa.
Clarence Abner Schuler	Allentown, Pa.
Charles Solomon Seaman	Allentown, Pa.
Emory Seasholtz	Sunbury, Pa.
Robert Landis Shelly	Zionsville, Pa.
1William B. Shelly	Quakertown, Pa.
Parke Sherer	Allentown, Pa.
Harold Stanley Sloyer	Northampton, Pa.
Harrison Andrew Smith	Allentown, Pa.
4Raymond Harold Smith	Shoemakersville, Pa.
1Clarence Augustus Snyder	Fullerton, Pa.
*Edgar A. Snyder	Weaversville, Pa.
Floyd Milton Snyder	Fullerton, Pa.
Quintin W. Stauffer	Alburtis, Pa.
Frank Keller Stone	Allentown, Pa.
George Washington Stone	Allentown, Pa.
Harry Gould Stuart	Allentown, Pa.
1Kotaro Tanaka	Tokyo, Japan.
Carl Gustav Toebke	Brooklyn, N. Y.
Clarence Charles Troxell	Cementon, Pa.
1Agnew Seyler Tryon	Rehrersburg, Pa.
Fred John Weaver	Allentown, Pa.
Ralph Schaffer Wenner	Allentown, Pa.
3Elmer Alden Werley	Allentown, Pa.
*Leon Werley	Breinigsville, Pa.
John Raymond Williams	Walnutport, Pa.
Paul Luther Yount	Greensburg, Pa.
Owen Zellner	Rittersville, Pa.

Total enrollment	109
Total enrollment for the school year, June 30, 1905, to June 30, 1906 (including Summer Session of 1905)	79
Enrollment June 30, 1906, to Feb. 1, 1907 (including Summer Session of 1906)	83

(1)Entered Muhlenberg College.
(2)Entered Wharton School, University of Pennsylvania.
(3)Entered Dental Department, University of Pennsylvania.
(4)Entered Pennsylvania State College.
(5)Entered Franklin and Marshall College.
(*)Special students in Greek, Latin, or German.

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